### SYSTEM AUDIT REPORT NUMBER 03/35812/SP-02/S11



### THIS REPORT RELATES TO A/AN SURVEILLANCE/UPGRADE VISIT ON JUNE 17-18, 03

			Other City - XIII I			
Company: Marshall Spce Flight Cer	nter		Other Sites Visited:  1. N/A			
			10 17/23			
Address: MSFC Alabama 35812						
Address: WSFC Alabama 53612			2. N/A			
<u> </u>						
Scope:						
	and Services Pro	ovided by the Marsh	all Space Flight Center. MSFC Supports the NASA			
Agency Infrastructure and is a	a Major Contribu	tor to All Its Scientif	fic and Technical Enterprises.			
			cing of Flight Hardware, Flight Software, and			
associated Ground Support Ed	quipment Interfac	cing with Flight Hard	dware and Fight Software.			
			• ,			
·						
•						
Standard(s): AS 9100 A	Support Docu	mentation(s): AS9	101A Non-English Languages Used: N/A			
Comments/Concerns of the Assessn						
No Noncompliances noted. R			titus time.  Certificate processing can begin immediately.			
Previously identified noncom						
1 Toviously identified Holloom	pilatious have bec	on sansiactorny actur	osou.			
·						
The visit is deemed to be:			Plan (CAP) Instructions:			
Satisfactory Unsatisfactory		processing initia	AP in 20 working days (all NCs, Obs & OIs). Certificate tiates after receipt/acceptance of CAPs.			
Unsatisfactory visits may result in a change	ge to the next	AS & QS-9	S-9000 NCs must be closed prior to certificate issuance.			
audit activity.		Return CA	P in ten days for Major NCs issued during surveillance.			
NQA ASSESSMENT TEAM			COMPANY INFORMATION			
LEAD AUDITOR: Richard Giguere			MGT. REP.: Axel Roth			
TEAM: Bill Hartman	TEAM:		QUALITY MANUAL (REV & ISSUE DATE):			
TEAM:	TEAM:		Rev K May 9, 2003			
			e prior agreement of NQA, USA and the company named			
		· ·	e the result of limited sampling and therefore non- system is deemed effective unless noted within the body of this			
report. The company representative's signature	indicates their agreen	nent and understanding of	any non-compliances/non-conformances and observations			
contained in this report. Prior to the assessment documented. The quality system shall be under			e system internal audit and subsequent management review			
NQA) USA Representative Signature a	and Date:	Company Represent	ative Signature and Date:			
Wishard the 2	18/03	(M	W KOW 6 1703 Page 1 of 4			
<del></del>			make the second			

### SYSTEM AUDIT REPORT NUMBER: 03/35812/SP02/S11



### **AUDIT MATRIX**

X or √ indicates reference point for assessment. X or √ through entire box as applicable to indicate actual function/process			SPECIFIC ISO 9001;2000 REQUIREMENTS FUNCTIONS/PROCESSES AUDITED DURING THIS VISIT								ES	NEXT VISIT PLAN					
audited against the ISO 9001:2000 requirement. X or √ in next visit block indicates planned section for next activity. Estimated duration is 45 minutes.  Note: Asterisk (*) indicates requirement to be reviewed at each		EP			Z		GMT	TRL	MEINT		TEMS			NOI			
ISO 9001:2000 Reference	Clause Title	MGMGT REP	DESIGN	TEST	INSPECTION	S & MA	CONFIG MGMI	TRAFFIC CTRL	PROCUREMENT	HEI	DATA SYSTEMS	ECLSS	BIC	CALIBRATION	HOSC		
4.2.1 & 4.2.2*	Quality Manual *					X											X
4.2.3	Document Control		X			х					X						
4.2.4	Quality Records	X	X	X	X	X	X	Х	X	X		X					
4.1, 5.1, 5.2, 5.3, 5.4.2, 5.5	Management Activities																X
5.4.1*	Quality Objectives*	X				X											X
5.6*	Management Review *	X				X											Х
6.1 & 6.2	Resources & Competence																X
6.3 & 6.4	Infrastructure & Work Environment																X
7.1	Product Realization Planning												X	·			
7.2	Customer Related Process & Comm.			X									X				
7.3	Design & Development		X														
7.4	Purchasing								X								
7.5.1 & 7.5.3	Process Provision and ID&T Activities			X													
7.5.2	Process Validation			X													
7.5.4	Customer Property			X									X				
7.5.5	Preservation (Handling, Storage & Deliv.)			X				X									
7.6	Calibration			X													
8.1	Measurement & Monitoring Planning																
8.2.1*	Customer Satisfaction*	X				X											X
8.2.2*	Internal Audits*					X											X
8.2.3	Measurement & Monitoring of Process														X		
8.2.4	Measurement & Monitoring of Product				X												
8.3	Non-Conforming Processes/Products				X												
8.4	Analysis of Data																X
8.5.1*	Continuous Improvement*	X															X
8.5.2 & 8.5.3*	Corrective/Preventive Action*	X								X		X					X
	Use of NQA Logo		T			X		T									X

### SYSTEM AUDIT REPORT NUMBER 03/35812/SP02/S11



### SYSTEM AUDIT RECORD

Auditor(s): Rick Giguere Bill Hartman

**Date:** June 17-18, 2003

Clause No.	Record of Details of Audit (names, referenced documents, depts, etc.)	NC	Obs or OIs
ALL	See AS 9101 A checklist INTERVIEWED: DOCUMENTS REVIEWED: OBJECTIVE EVIDENCE SAMPLED:		1
	INTERVIEWED: DOCUMENTS REVIEWED: OBJECTIVE EVIDENCE SAMPLED:		
	INTERVIEWED: DOCUMENTS REVIEWED: OBJECTIVE EVIDENCE SAMPLED:		ı
	INTERVIEWED: DOCUMENTS REVIEWED: OBJECTIVE EVIDENCE SAMPLED:		

7	ro	AL	•	l
PAGE	3	OF	4	

### SYSTEM AUDIT REPORT NUMBER 03/35812/SP02/S-11



Ref No.	Clause No.	NON-CONFORMANCES & OBSERVATIONS/OPPORTUNITIES FOR IMPROVEMENT RAISED	NC/OBS/ OI
1	5.6	A review of management review meeting minutes reveals a weakness in the level of discussion on performance against objectives.	OBS
÷			
			,

NQA, USA Representative Signature and Date:	Company Represe	ntative fixnatu	re and Date:	
1/12/20 9/10-	and	Ko'lli)	6/8/03	Page 4 of 4
- (8/03		16710	71010/	
	7	7		



## **AEROSPACE STANDARD**

SAE AS9101

Technically equivalent to AECMA prEN 9101

REV. Α

Issued Revised

2000-09 2002-04

Superseding AS9101

Quality System Assessment

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# SECTION 1 Associated to the AS9100/EN9100/JISQ9100 Section 1 based on ISO 9001-2000

#### 1. SCOPE:

The purpose of this document is to define the content and the presentation of the Assessment Report of the section 1 of the AS/EN/JISQ 9100, based on ISO 9001-2000.

#### 2. QUALITY SYSTEM ASSESSMENT REPORT CONTENT:

The Assessment Report is made up of:

- Page 3 (required)
   General Assessment Information
- Page 4 (required)
   Assessment Conclusions
- Page 5 (optional)
   General Organizational Information
- Page 6 (optional if Quality Scoring Appendix 2 is used)
   Assessment Result Summary
- Page 7
   Corrective Action Request (when required)
- Page 8
   List of Recommendations/Observations/Comments
- Appendix 1
   Quality System Questionnaire relative to the section 1 of the AS/EN/JISQ 9100
- Appendix 2
   Quality System Scoring (Optional)
- Appendix 3
   Documents regarding the company:
  - Organization charts
  - Copies of agreements and certifications

### ASSESSMENT REPORT

Assessing company logo

GENERAL ASSESSI	MENT INFORMATION
1. Organization & Work Address	
Company Name: NASA - MSFC	Tel Number: 256-544-0451 Fax Number: 256-544-7920
Subsidiary of : Conganization Identification :	e-mail: axel-roth@nasa.gov
Assessed Site Address :	Assessment Representative & Title :
Marshall Space Flight Center	Rick Grugere - Auditor, Lead ! Quality Manager Representative & Title :
MSFC, AL 35812	Axel Roth, Management Representative;
Main activities: Program Management Product Types or Codes:	
2. ISO Registration	
IX ISO Registered	Registrar Name: NOA -USA
ISO Standard / Revision Aerospace Standard / Revision	Expiration Date (If applicable): May 27, 2004
3. Assessment Team	
Lead Assessor Name:	Other Assessor Team Members :
Certified Auditor – Type & No.  Qualified Auditor  AU3158	1
Qualified Auditor A03158	Bill Hartman
4. Assessment Dates: June 17-18, 20	03
5. Assessment Scope	
Total facility assessed	All 9100 elements assessed
Partial facility assessed Re-assessment	Partial 9100 elements assessed
MOther: AS9100 Upgrade	Elements not assessed :
6. Assessment Disposition	7. Scoring
Conforming	Scoring result :
Conforming with minor (mi) corrective action	
Non conforming with Major (MA) corrective action	N/A
8. Assessment Approval	
	Assessor Name Signature
NOA-USA 6/18/03 Ricx 6	ingere / Whard for
Distribution Agreement This Assessment Report is the property of the assessed Organizal companies or individuals is authorized only after written agreement Company.	
To that end, a signature below by an Authorized Representative of copied by the organization for other customers. If copied, the report must be disclosed in full including findings and	
Authorized Representative Rick Grugere	Signature Must yet Date 6/18/03

#### ASSESSMENT REPORT

Assessing company logo

### ASSESSMENT CONCLUSIONS

(To be completed in English)

General comments about the organization and the quality system of the assessed organization:

Good overall awareness of quality system requirements at all levels.

Strong points:

Risk management process as related to use in projects.

Internal aidits based an processes rather than proceedings.

Automated system used for design process document control.

Improvement Opportunities:

Better documentation of quality objective discussions during management review.

A	SSESSMENT R	EPORT		Assessing company logo
	GENERAL ORG	SANIZATION INFOR	MATION	
1. Legal and Financial As	pects			
Date of Formation:				
Legal Status :		,		
[] Capital:				
C) Other Data :				
	Third Prior Financial	Second Prior Financial Year	First Prior Finan	cial Current Financial
Sales	1	1 1	1	
Earnings	1 1	1		1 1 1
Earnings used for Re- Investment	1	1		
Workforce	j	1		1
2. Turnover breakdown an	d main Customers			
Activities	Main Cu	stomers	Sale	s Percentage
Aircraft, Space and Defense Industry	1 1 1 1	1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	L	,	L	
Other Activity (be specific)				
3. Clearances or Approvals	granted by Author	ities		
Name of the Authority	Types and F	References	End	of Validity (date)
	1	1 1		

### ASSESSMENT REPORT

Assessing company logo

	ASSE	SSME	ENT F	RESU	LT SUMMARY
Organization:					
Elements*	Result				Observation / Corrective Action Request Number
(AS / EN / JISQ9100 Standard)	S	MA	mi	N/A	(MA/mi)
4- Quality Management System					
4.1 General requirements	13				1
4.2 Documentation requirements	9				
4.3 Configuration Management	S				
5 - Management responsibility				•	
5.1 Management commitment	15	:			
5.2 Customer focus	S				
5.3 Quality policy	5				<del></del>
5.4 Planning	5				<del></del>
5.5 Responsibility, authority and communication	5		1		******************************
5.6 Management review	5		!		1 Observation
6 - Resource management	1/			<u></u>	
6.1 Provision of resources	5			,	
6.2 Human resources	2		·		<del></del>
6.3 Infrastructure	3				<del></del>
6.4 Work environment	3		<u></u>		
- Product realization	- 3- 11				
7.1 Planning of product realization	13				
7.2 Customer-related processes	5				
7.3 Design and development	3		<del></del>	<del>/ </del>	<del></del>
7.4 Purchasing	S		,		<del></del>
7.5 Production and service provision	5				
7.6 Control of monitoring and measuring	5				
devices	-2	· ,}			
- Measurement, analysis and improvement	· <del>* 27*.1</del>				
8.1 General	_ 🕹 .	<u></u>		/	
8.2 Monitoring and measurement	S	<u>1</u>			<del></del>
8.3 Control of nonconforming product	5.1	//-		!	
8.4 Analysis of data	5.				
8.5 Improvement	3				
ssessed Organization : NASA - HSFC		-		3 1	Assessing Company : NOA-USA
ep's name: Axel Roth	S	Resu			ead Assessor Name: Rich Grugere Signature:
*For each element, cross results of assessm applicable	ent ; "S	" for Sa	tisfact	ory, "M	A" for major corrective action //mi" for minor or "N/A" for non

		(C.A.R.)		•		. As	logo	
Organization:				Identification	C.A.R. No.:			
Site:				Date issued:		~ ~ ~ ~	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
Reference Standard:			<del>1</del>	Referenced S	tandard Elen	ement concerned:		
Crificality MA / mi		Non-C	onfo	rmance Descri	ption			
Assessor Name :			!	Assessor Sigr	nature :	~		
Assessed Organization to conaction and planned completic date.							Due date :	
Action Root Cause:							1	
Action Corrective Action :							Planned completion date of Corrective Action :	
Organization Representative	Name :	Signature :			Current date	:		
Verification of the	implementat	ion of the completed	Corr	ective Action b	y the Assesse	d Orga	anization	
Organization Representative		Signature :			Current date			
Verification of the imple					ed out by the			
Verification date :	Accepte	ed: _! No [_!	Ass	essor Name :		Asses	ssor Signature :	

List	t of Recoi	mmendations/Obse	ervations/Comments		company logo				
Organization :			Audit report number : ;	'-					
Site:			Issued date:						
Item Number	Section		Description						
3 3	1 1								

Lead Assessor Name : Signature :

S: Satisfactory - CAR: Corrective action required - MA: Major corrective action - mI: Minor corrective action N/A: Not applicable - N/E: Not evaluated - P: Product - M: Management

### APPENDIX 1 9101 QUALITY SYSTEM QUESTIONNAIRE

Associated to the International Quality System Standard AS9100/JISQ9100/EN9100 Section 1, based on ISO 9001-2000

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#### Revision A SAE AS9101

#### SCOPE:

The purpose of this document is to present the questionnaire to be used during the "on site" quality system assessment of Organizations in order to ensure common practices for these assessments. This questionnaire is relative to the section 1 of the AS/EN/JISQ 9100 based on ISO 9001-2000.

#### 2. USE OF THE QUESTIONNAIRE:

The use of this questionnaire is mandatory and will be a part of the Assessment Report.

The questionnaire is based on the AS/EN/JISQ 9100 standard, section 1, which is relative to:

- ISO 9001:2000 requirements
- Additional Aerospace specific requirements are shown in bold and italics

When a reference (e.g. 4.1) is added to a question, it is linked to the appropriate chapter (e.g. 4.1) of AS/EN/JISQ 9100.

Important questionnaire elements are defined below:

Key requirements

The questions which are marked by:

- "P" have a direct link with the products
- "M" have a direct link with the management
- Mark the appropriate box for each requirement with:
  - Satisfactory (S)
  - Not applicable (N/A)
  - Not evaluated (N/E)
- Corrective Action Request (CAR) are categorized Major (MA) or Minor (mi.):

Major:

The absence of, or total breakdown of a management element specified in the 9100 standard or any non-conformities where the effect is judged to be detrimental to the integrity of the product or service which are identified as Key Requirements in significant

sections of AS/EN/JISQ 9100 ("P" or "M") in the questionnaire.

Other deviation. Minor:

Note: A number of minor non-conformities against one requirement can represent a total breakdown of the system and this can be considered as a major non-conformity.

The CAR number shall be referenced in the column "CAR number". The category MA for Major CAR or mi for Minor CAR shall be included in this column.

 Objective evidence assessed/Observations/Comments Record the objective evidence reviewed during the assessment. Guidance is provided for certain questions, as indicated in the Key Requirements column by a small number (for example: 1).

QUALITY SYSTEM QUESTIONNAIRE					
ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	N/E
4 Quality management system					
4.1. General requirements					
Has the organization established, documented, implemented and maintained a quality management		]	<i></i>		
system and continually improve its effectiveness in accordance with the requirements of this		1			!
International Standard?	F = 1				- : -
Does the organization :		1			
identify the processes needed for the quality management system and their application	[1]_]	- /			
throughout the organization?	-15 1	1			
determine the sequence and interaction of these processes?		- 4		:	
determine criteria and methods needed to ensure that both the operation and control of these processes are effective?			1		
ensure the availability of resources and information necessary to support the operation	}}				
and monitoring of these processes?		·- f	9	1	
monitor, measure and enalyze these processes? and	1 1	- ji			
Implement actions necessary to achieve planned results and continual improvement of	-			4	
these processes?		<u> '</u>			
Are these processes managed by the organization in accordance with the requirements of this		1		;	
International Standard?				1	
Where an organization chooses to outsource any process that affects product conformity with				-	
requirements, does the organization ensure control over such processes?	- L - L	= #-			
Is the control of such outsource processes identified within the quality management system?	1	1	1	10	
realization and measurement. 4.2. Documentation requirements 4.2.1 General  06 Does the quality management system documentation include:				:	
Does the quality management system documentation include :  a) documented statements of a quality policy and quality objectives?	Į.	Ġ	)(	,	
b) a quality manual?	Į.	- 3	įį.	•	
c) documented procedures required by this International Standard?	7	- 5	- 11	h	
d) documents needed by the organization to ensure the effective planning, operation and control	ż	3	15 16	'n	i
of its processes?	·	- 3	\$1	ts R	
e) records required by this International Standard (see 4.2.4)? and	1	c Ì	, 51	•	
f) quality system requirements imposed by the applicable Regulatory Authorities?		<u>7</u> {		- 4	!
07 Does the organization ensure that personnel have access to quality management system documentation and are aware of relevant procedures?		5	;	11	, <sub>.</sub>
08 Do Customer and/or regulatory authority representatives have access to quality management system documentation?		5		11	1
Main process formally identified (list, flow diagram, etc.)		<u> </u>			
Objective evidence assessed / Observations / Comments					$\overline{}$
DAccess via the MIDL, (Marshall Integrated	Docus	yuhu	+ Lib	rdi	7
					1

S: Salisfactory - CAR; Corrective action required - MA; Major corrective action - mI; Minor corrective action N/A: Not applicable - N/E: Not evaluated - P: Product - M: Management

		·			
ASSESSMENT QUESTIONS	KEY Requirements	s	CAR Number Ma or mi	N/A	N/E
.2.2 Quality manual		,			
9 Has the organization established and maintained a quality manual that includes :	1);			J	,
<ul> <li>a) the scope of the quality management system, including details of, and justification for, any</li> </ul>	; ;			<u>}</u> ;	ì
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	;	J	,	! !	,
ality manual he organization established and maintained a quality manual that includes: the scope of the quality management system, including details of, and justification for, any exclusions? the documented procedures established for the quality management system, or reference to them, and when referencing the documented procedures, is the relationship between the equirements of this International Standard and the documented procedures clearly shown?  a description of the interaction between the processes of the quality management system?  here the term 'documented procedure' appears within this International Standard, this means that the procedure is established, di, implemented and maintained, see extent of the quality management system documentation can differ from one organization to another due to care of organization and type of activities, omplexity of processes and their interactions, and ompetence of personnel introl of documents the documents required by the quality management system controlled?  coords controlled according to the requirements given in 4.2.4? a documented procedure been established to define the controls needed to: a) approve documents for adequacy prior to issue? b) review and update as necessary and re-approve documents? c) ensure that changes and the current revision status of documents are available at points of use? e) ensure that changes and the current revisions talus of documents are identified? f) ensure that documents remain legible and readify identifiable? f) ensure that documents remain legible and readify identifiable? f) ensure that documents remain legible and readify identifiable? f) ensure that documents remain legible and readify identifiable? f) ensure that documents of external origin are identified and their distribution controlled? and g) prevent the unintended use of obsolete documents, and to apply suitable identification to them if they are retained for any purpose?  the organization coordinate document changes with customers and/or regulatory rities in acco					
ocumented, implemented and maintained. ote 2: The extent of the quality management system documentation can differ from one organization to an the size of organization and type of activities, the complexity of processes and their interactions, and the competence of personnel	nother due to				
2.3 Control of documents					
Are the documents required by the quality management system controlled?		#ر			
Are records controlled according to the requirements given in 4.2.4?	<u></u>	3		اليب	<u>.</u>
2 Has a documented procedure been established to define the controls needed to:		; ,	i i	: 1	, -
	; ;	1 1	1	i : :[[	i
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		: "	- ;}	9	
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				- #;	
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		<b>&gt;</b> ,		1	
				= = 1	
· · · · · · · · · · · · · · · · · · ·	1 16	ا و	11		
					_
Quality manual reference and issue Check the procedure list					
International standard used as referential					
piertive evidence assessed / Observations / Comments					
pedate critaine assessed / Observations / Comments					_
					-
Rogean / Reject Data Syptem - MW1 7120.	3 12	n B	}		
2 GMY - COBRA - PLAN-003 8/30/02 A	ipr./				
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MPD 1280.1 K

S: Salisfactory - CAR: Corrective action required - MA: Major corrective action - mi: Minor corrective action N/A: Not epplicable - N/E: Not evaluated - P: Product - M: Management

	QUALITY SYSTEM QUESTIONNAIRE					
	ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	N/E
	4.2. Documentation requirements (continued) 4.2.4 Control of records	×				
	14 Are records established and maintained to provide evidence of conformity to requirements and of the effective operation of the quality management system?		5:	1	1	
		T15)====	3	<u></u>		
	<ul> <li>15 Do records remain legible, readily identifiable and retrievable?</li> <li>16 Has a documented procedure been established to define the controls needed for the identification,</li> </ul>	سم حد حد مداند إله ا			; ;-	Jan - 2-
	storage, protection, retrieval, retention time and disposition of records?	} ;;	ン	. 1	1	
	17 Does the documented procedure define the method for controlling records that are created by end/or retained by suppliers?	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5	م حد حد حد مو و ا		 
	18 Are records available for review by customers and regulatory authorities in accordance with contract or regulatory requirements? MPC 1280. (K) 4.3 Configuration management		5	1		
	19 Has the organization established, documented and maintained a configuration management process appropriate to the product?	P,	},	,	- :	1
ĺ					<u>1</u>	
	1) Records examples	<del></del>				
	Despertied per 186-1440 2 - noted per centract. Sugal NAS	P-00	ااه			
		•				1 1 1
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S: Salisfactory - CAR: Corrective action required — MA: Major corrective action — mi: Minor corrective action N/A: Not applicable - N/E: Not evaluated - P: Product - M: Management

QUALITY SYSTEM QUESTIONNAIRE	=						
ASSESSMENT QUESTIONS		KEY	1 5	s T	CAR	N/A	N/E
ASSESSMENT QUESTIONS	١,	lequireme	mis .		Number Ma or mi		
					ma or tru		
5 Management responsibility							
5.1. Management commitment							
01 Has Top management provided evidence of its commitment to the development and	1	)-	1	- 1		1	1;
implementation of the quality management system and continually improving its effectiveness by:		i	Ţ,	Į,		:	1:
(a) communicating to the organization the importance of meeting customer as well as		1	ľ	β,		<u>}</u>	<b>1</b>
statutory and regulatory requirements?		1.	1	1:		: :	/
b) establishing the quality policy?			ŀ	- 1		1	1
c) ensuring that quality objectives are established?	М	ı,	Į.	1			1
d) conducting management reviews? and		;	Ţ,	Ţ,		1	<u> </u>
e) ensuring the availability of resources?		<u></u>	<u>- -</u>  -	1	<del></del> .	1	
. 5.2. Customer focus				-۳-			
02 Has Top management ensured that customer requirements are determined and are met with the			};	1			
aim of enhancing customer satisfaction (see 7.2.1 and 8.2.1)?  5.3. Quality policy		<u></u>	ـ حاء	- 1-		11 _ 1	11-2-1
	1	1		-1.		1:-	
		1	i.	1			
a) is appropriate to the purpose of the organization?	1	1	li.	1;	,	; ;	i
b) includes a commitment to comply with requirements and continually improve the effectiveness of the quality management system?		1	11	1;		1:	1
c) provides a framework for establishing and reviewing quality objectives?		į	!!	1			
d) is communicated and understood within the organization? and		1	ij	1	·		1
e) is reviewed for continuing sultability?	2)	in di la com		di.		; ;	
	:			1		لسنا	لحجك
5.4. Planning 5.4.1. Quality objectives				-,			
04 Has Top management ensured that quality objectives, including those needed to meet	(3)		H	1	1	: }	: }
requirements for product [see 7.1 a)], are established at relevant functions and levels within the organization.		ı	35	1	j		; }
05 Are the quality objectives measurable and consistent with the quality policy.	M		76	+	***		-}}
5.4.2. Quality management system planning	تتل		1-6	-		1	
06 Has Top management ensured that :	1		77	11	<u> </u>	17	
a) the planning of the quality management system is carried out in order to meet the	;		13	11	1	; ;	;
requirements (see 4.1), as well as the quality objectives? and	1		1		1	; ;	<b>:</b> /:
b) the integrity of the quality management system is maintained when changes to the quality	1:		4	;;	1	1 1	i ;
management system are planned and implemented?	ļi		31	1 6	;		
Evidence of management commitment							
2) Identify and records method of communication							
Yearly objectives (current and previous year) and status of their implementation							
Objective evidence assessed / Observations / Comments							
dia to the Mant Chan							- :
discussion noted at Mgmt Per.							
,							;
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	<u> </u>						<u></u> -

S : Satisfactory - CAR : Corrective action required - MA : Major corrective action - mf : Minor corrective action N /A : Not applicable - N/E: Not evaluated - P : Product - M : Management

QUALITY SYSTEM QUESTIONNAIRE					
ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	N/E
4.2. Documentation requirements (continued) 4.2.4 Control of records		٠.			
14 Are records established and maintained to provide evidence of conformity to requirements and of the effective operation of the quality management system?		S			) 
15 Do records remain legible, readily identifiable and retrievable?	1)	5		1	ha
16 Has a documented procedure been established to define the controls needed for the identification, storage, protection, retrieval, retention time and disposition of records? MPG 1410, 1 + /410, 2	, , ,	Si	ر ا الموروب موسور		1
17 Does the documented procedure define the method for controlling records that are created		53			1
by and/or retained by suppliers?	, 	بزج	المحاجرات	= = 1	
18 Are records available for review by customers and regulatory authorities in accordance	11	Sä	i	: :	
with contract or regulatory requirements? 4.3 Configuration management		-,		_ 1	
	p	77		1	-
19 Has the organization established, documented and maintained a configuration management process appropriate to the product ?	· ; ; ;	<b>S</b> ‡	1	;	
		- 4-	1		
) Records examples					-
Objective evidence assessed / Observations / Comments					
Canf + Data Managent Group Leader - genice to programs + prejects - support mana ED43-001 - Canf. + Data Mant-Gray - ED43-025 - Program/Project Doc + Date Mark Syp	egent.	ar.	ρ^±jæ	: <del>1</del> ,	
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	QUALITY SYSTEM QUESTIONNAIRE					
	ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	N/E
5 5.1	Management responsibility  Management commitment					
5.2	Has Top management provided evidence of its commitment to the development and implementation of the quality management system and continually improving its effectiveness by :  a) communicating to the organization the importance of meeting customer as well as statutory and regulatory requirements?  b) establishing the quality policy?  c) ensuring that quality objectives are established?  d) conducting management reviews? and  e) ensuring the availability of resources?  Customer focus	1) M,				
02	Has Top management ensured that customer requirements are determined and are met with the	Ti	,	,	1	-
L	airn of enhancing customer satisfaction (see 7.2.1 and 8.2.1)?	1	1			<u></u>
5.3	and the second s	<del></del>	<del>ام من</del> :	<del></del>		
03	Has Top management ensured that the quality policy:  a) is appropriate to the purpose of the organization?			1		
	b) includes a commitment to comply with requirements and continually improve the				: }	1 ;
	* effectiveness of the quality management system?				; }	1
	c) provides a framework for establishing and reviewing quality objectives?		;	1	; }	1 i
l	d) is communicated and understood within the organization? and	2)	; }		; }	1
5.4.	e) is reviewed for continuing suitability?  Planning					تسا
5.4.1.		16,			<del></del>	
	Has Top management ensured that quality objectives, including those needed to meet requirements for product [see 7.1 a)], are established at relevant functions and levels within the organization.	3)!				
05	Are the quality objectives measurable and consistent with the quality policy.	Mi		1		
5.4.2.	Quality management system planning	-	<del>,</del>		,	
06	the planning of the quality management system is carried out in order to meet the requirements (see 4.1), as well as the quality objectives? and     the integrity of the quality management system is maintained when changes to the quality management system are planned and implemented?					
2)	Evidence of management commitment dentify and records method of communication rearly objectives (current and previous year) and status of their implementation					
Obj	ective evidence assessed / Observations / Comments					1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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	E	
ASSESSMENT QUESTIONS	Requirements S CAR Number Ma or mi	N/A N/E
Responsibility, authority and communication 1. Responsibility and authority		/
Has Top management ensured that the responsibilities and authorities are defined and communicated within the organization?	1) }	
2. Management representative Axel Roth		
8 Has Top management appointed a member of management who, irrespective of other responsibilities, has responsibility and authority that includes:	M S S	
a) ensuring that processes needed for the quality management system are established, implemented and maintained?		
b) reporting to top management on the performance of the quality management system and any need for improvement?	1 \$2 50 50 50 50 50 50 50 50 50 50 50 50 50	4
<ul> <li>ensuring the promotion of awareness of customer requirements throughout the organization? and</li> </ul>		
d) the organizational freedom to resolve matters pertaining to quality?  3. Internal communication	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u></u>
Has Top management ensured that appropriate communication processes are established within		1
the organization and that communication takes place regarding the effectiveness of the quality management system.		
Management review		Annual Contract of the Contrac
. General  Has Top management reviewed the organization's quality management system, at planned	2)1, 1	
intervals, to ensure its continuing suitability, adequacy and effectiveness?	5	
Does this review include assessing opportunities for improvement and the need for changes to the quality management system, including the quality policy and quality objectives?	5	Observat
Are records from management reviews maintained (see 4.2.4)?	3	F = = F = = = = = = = = = = = = = = = =
Identify and records method of communication within the organization		
Records management review frequency and attendees		. ]
jective evidence assessed / Observations / Comments	* *************************************	
Mant Rear dated 5/20/03, 10/11	1/02	1 .
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	QUALITY SYSTEM QUESTIONNAIRE ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	N/E
	nagement responsibility (Continued) ew input	•				
13 Does	the input to management review include information on:	1) M				
a)	results of audits?		5:			1
b)	customer feedback?		1			1
c)	process performance and product conformity?	1	•	. 1		t t
d)	status of preventive and corrective actions?		1	,	[ ]	t t
e)	follow-up actions from previous management reviews?	·	1	1	, }	
. 0	changes that could affect the quality management system? and	! #	- }		1 3	
g) 6.3. Revi	recommendations for improvement?	<u> </u>	1			
	and the second of the second o	1) M				
	the output from the management review include any decisions and actions related to :	22	7-			
a). b)	improvement of the effectiveness of the quality management system and its processes?  improvement of product related to customer requirements? and	i	<b>)</b> ‡	}	<b>.</b>	
c)	resource needs?	I			\$	
	1 Cooling Incool	<u> </u>				-
Verify the	availability of input / output data such as : stalistical data; graphics; summary tables; reports;	elc.				
	e evidence assessed / Observations / Comments					
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Г	QUALITY SYSTEM QUESTIONNAIRE					
	ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	N/E
6	Resource management Provision of resources					
01	Has the organization determined and provided the resources needed:	,			,	
	a) to implement and maintain the quality management system and continually improve its	1		į	{ ;	
	effectiveness? and			•		
6.2.	b) to enhance customer satisfaction by meeting customer requirements?  Human resources			'		
	1. General					
02	Are personnel performing work affecting product quality competent on the basis of appropriate education, training, skills and experience.	1),	1 12	1	] 6 3 1	/
6.2.2.	Competence, awareness and training		~			
03	Does the organization:		1			
	<ul> <li>determine the necessary competence for personnel performing work affecting product quality?</li> </ul>	2) P		5 5	ί ί	
	b) provide training or take other actions to satisfy these needs?		j.	3	į	1
	c) evaluate the effectiveness of the actions taken?	i.	4	Ĭ	· ·	
	d) ensure that its personnel are aware of the relevance and importance of their activities and	;	y.	3	į	<b>إن</b> ارًا
	how they contribute to the achievement of the quality objectives?	1	ij .	4	,	ļ,
	e) maintain appropriate records of education, training, skills and experience (see 4.2.4)?		1	i i	ì	)
6.3.	Infrastructure	[3]	T	<u> </u>	<u> </u>	i i
04	Does the organization determine, provide and maintain the infrastructure needed to achieve		7	,		اسبا
04	conformity to product requirements.		ł	1 6	n n	\$ 1
	Infrastructure includes, as applicable:		1	1 1	R.	; }
	a) buildings, workspace and associated utilities?	t t	*	•	ı r	; <b>\</b>
	b) process equipment (both hardware and software)? and	<u>.</u>	#		1	<u> </u>
	c) supporting services (such as transport or communication)?				N .	
5.4.	Work environment					
05	Does the organization determine and manage the work environment needed to achieve conformity to product requirements?	Pı	S	, , ,	)    -    -	
Note:	Factors that may affect the conformity of the product include temperature, humidity, lighting, cleanliness, pro	tection from	electro	static discha	rge, et	
1) 1	raining Records and Pian (status of the current year and of the previous year)  live examples of methods used to determine competence (e.g.: competence matrix, multiskill)  raining certificates for the certified personnel and training records (internal and external training courses)					
	ective evidence assessed / Observations / Comments					=
06	served test area environment - well maintained to	ppropr	耐	Gr us	ē,	
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-		QUALITY SYSTEM QUESTIONNAIRE	um.	1 -		T	
		ASSESSMENT QUESTIONS	KEY Requirements	s	CAR Number Ma or mi	N/A	N/E
7 7.1.		roduct realization					
01	Does	the organization plan and develop the processes needed for product realization? (see 4.1)		3	<del>, ,</del>	<u>'</u>	~
02		nning of product realization consistent with the requirements of the other processes of the			<del>====;</del>		<del>= -</del> -
		y management system (see 4.1)?		$\mathbf{z}$		1	
03	In pla	nning product realization, does the organization determine the following, as appropriate:	1			1	
	/ a)	quality objectives and requirements for the product?		,			
1	( b)	the need to establish processes, documents, and provide resources specific to the product?	1 8	ا بر ا	:	,	
	<b>\</b> c)	required verification, validation, monitoring, inspection and test activities specific to the	; }	ξς:	. ]	;	
	1	product and the criteria for product acceptance?	_;		}	1 1	
	<b>)</b> d)	records needed to provide evidence that the realization processes and resulting product	P <sub>1</sub>	, i			
	Ι.	meet requirements (see 4.2.4)?	: }	1 1	. 1		
-	( )	the identification of resources to support operation and maintenance of the product?		-			
7.2.		output of this planning in a form suitable for the organization's method of operations?		2			
		termination of requirements related to the product					
04		the contract of the contract o	Mi - il				
	a)	requirements specified by the customer, including the requirements for delivery and post-		į.	1	. ,	
		delivery activities?		, ,	1	Ä	
	b)	requirements not stated by the customer but necessary for specified or intended use, where	: 4	5	f.	ą.	
		known?	; ;	11	37	ių ių	
	c)	statutory and regulatory requirements related to the product? and	: ;	,; I,	i gi	a) b)	
_	d)	any additional requirements determined by the organization ?	<u> </u>	)! 		- 1	
		e evidence assessed / Observations / Comments					
R	4.	1SFC Plan - 3063 4/19/02 in process of 16	5. I.	-72	<i>T</i>		
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QUALITY SYSTEM QUESTIONNAIRE					
ASSESSMENT QUESTIONS	KEY Requirements	5	CAR Number Ma or mi	N/A	N/E
7.2.2. Review of requirements related to the product		÷			
06 Does the organization review the requirements related to the product?	1	S		- 1	
07 Is the review conducted prior to the organization's commitment to supply a product to the customer (e.g. submission of tenders, acceptance of contracts or orders, acceptance of changes to contracts or orders) and does it ensure that:	1) P				,
a) product requirements are defined?     b) contract or order requirements differing from those previously expressed are resolved?     c) the organization has the ability to meet the defined requirements? and	1 1	S	;		
d) risks (e.g., new technology, short delivery time scale) have been evaluated?	1			,	1
08 Are records of the results of the review and actions arising from the review maintained (see 4.2.4)?	2)	S			1
09 Where the customer provides no documented statement of requirement, are the customer requirements confirmed by the organization before acceptance?					
10 Where product requirements are changed, does the organization ensure that relevant documents are amended and that relevant personnel are made aware of the changed requirements?	Р	5			1
Note: In some situations, such as internet sales, a formal review is impractical for each order, instead the reinformation such as catalogues or advertising material.  7.2.3. Customer communication	eview can cov	ver the	relevant pro	oduct	
Does the organization determine and implement effective arrangements for communicating with customers in relation to:  a) product information?  b) enquiries, contracts or order handling, including amendments? and  c) customer feedback, including customer complaints?  1) Check that all affected functions are involved in the review	)  ()  ()  ()  ()  ()  ()  ()  ()  ()	S			
2) Give examples  Objective evidence assessed / Observations / Comments	····				=
MPG 7100.1, MWI 7120.1, MPG 7170.1  Interviewed Project Manager—BIC — Regents reviewed in Reviewed risk manager plan for HSRR-1 (HSRF Verified multi-functional /cross-functional review regardents document (MSRC-REGITT-2871 as evidenced by signalfs (998-50200, 958-5000).  Verified changes in requirements document review for implementation.  Literature brochures and informational enchange that meetings throughout project/program life cy space act agreements, infrageray agreements are all doci customer needs  Censtoner feedback handled by individual directoral	ord and an acte.	d ds	) apprount mer- used to	zed ,	

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QUALITY SYSTEM QUESTIONNAIRE					
ASSESSMENT QUESTIONS	KEY Requirements	s	CAR Number Ma or mi	N/A	N/E
7 Product realization (continued) 7.3.1.1. Design and development 7.3.1. Design and development planning					
12 Does the organization plan and control the design and development of product?		S			1
13 During the design and development planning, does the organization determine:  a) the design and development stages? Project Plan Lz MSCR  in respect of organization, task sequence, mandatory steps, significant stages and method of configuration control, MSFC-NAW-2902 \$19000000000000000000000000000000000000	1) M	S			
Where appropriate, due to complexity, does the organization give consideration to the following activities:  Structuring the design effort into significant elements?  for each element, analyzing the tasks and the necessary resources for its design and development. Does This analysis consider an identified responsible person, design content, input data, planning constraints, and performance conditions. Is the input data specific to each element reviewed to ensure consistency with requirements?		5		11 11 12 12 12 12 12 12 12 12 12 12 12 1	
15 Does the organization manage the interfaces between different groups involved in design application development to ensure effective communication and clear assignment of responsibility?		S		1	
16 Is planning output updated, as appropriate, as the design and development progresses? (Its of the different design and development tasks to be carried out defined according to resist specified safety or functional objectives of the population accordance with customer and/or regulatory authority requirements? WITH 1879 A.3.2. Design and development inputs	2) P	S			
Do these inputs relating to product requirements determined and are records maintained (see 4.2.4)?  Do these inputs include:  a) functional and performance requirements?  b) applicable statutory and regulatory requirements?  c) where applicable, information derived from previous similar designs? and distribution of the requirements essential for design and development?  19 Are these inputs reviewed for adequacy?  20 Are requirements completed, unambiguous and not in conflict with each other?  7.3.3.Design and development outputs	3) M1	5			
21 Are the outputs of design and development provided in a form that enables verification against the design and development input and approved prior to release?		<u> </u>			
Give at least an example of a completed design & development plan, or an example of one in progress, key events.     Give an example     List all applicable input data (give examples)	hat identifies	the pl	enning of t	asks a	nd
Objective evidence assessed / Observations / Comments Fram land AD23 - Structural Design / Structural West Miorgravity Science Research Rack - MSRR Program L responsible for system integration	Marazi	<u>٠</u>			
Capteled plan reviewed MSPC-PLAN-2902 ddd	4/26	3,			

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	QUALITY SYSTEM QUESTIONNAIRE					
	ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	N/E
7	Product realization (continued)					
7.3.3.	Design and development outputs (continued)	184	<del></del>	<del></del>		
22	Do the design and development outputs :	M	- ţ	-}	- /-	-ļ-
	a) meet the input requirements for design and development?	1	į	į	ţ,	ŝ
	<ul> <li>b) provide appropriate information for purchasing, production and for service provision?</li> </ul>		}_	Ę	· },	3
	c) contain or reference product acceptance criteria?	1	35	ρ. 	Ę.	Ä.
-	d) specify the characteristics of the product that are essential for its safe and proper use? and	1	V	r L	E	Ş
	<ul> <li>e) identify key characteristics, when applicable, in accordance with design or contract requirements?</li> </ul>	ļ 	<u> </u>	) , <del> </del>	1	1 -
	is all pertinent data required to allow the product to be identified, manufactured, inspected,	M		}	-	-
	used and maintained defined by the organization; for example:	1	į	j	Ş	Ş
	a) - Drawings, part lists, specifications?	1 .	3	٠	ĵ.	3
	b) - a listing of those drawings, part lists, and specifications necessary to define the	•	3.5	5	Ì	i.
	configuration and the design features of the product?	100		\$ * i .	fre.	فندر بطأ
	<ul> <li>information on material, processes, type of manufacturing and assembly of the product necessary to ensure the conformity of the product?</li> </ul>	;	,	ţ	Į.	ì
7.3.4	Design and development review			L	<u>il</u>	<u> </u>
	At suitable stages, are systematic reviews of design and development performed in accordance with	11)M	T		T	T
	planned arrangements (see 7.3.1) to:	1	1		·	<u></u>
	a) evaluate the ability of the results of design and development to meet requirements?		10	1	Ź	•
	b) identify any problems and propose necessary actions? and	i	; ~ <b>7</b>		ł.	1
	c) authorize progression to the next stage?	1	;		Į.	11
25 E	Do participants in such reviews include representatives of functions concerned with the design and	رماندست. ا	c	****	1	,
	evelopment stage(s) being reviewed?	1	; <b>ス</b> ;		Į į	í
26 A	are records of the results of the reviews and any necessary actions maintained (see 4.2.4)?  Design and development verification		S		1	1
27 1	s verification performed in accordance with planned arrangements (see 7.3.1) to ensure that the	<del>,</del> .		<del></del>	<del>}</del>	, -
	esign and development outputs have met the design and development input requirements?		2		}	
	re records of the results of the reviews and any necessary actions maintained (see 4.2.4)?		5		1	<del></del>
lote: [	Design and/or development verification may include activities such as:  performing alternative calculations,  comparing the new design with a similar proven design, if available undertaking tests and demonstrations, and  reviewing the design stage documents before release.					
	evidence of reviews					
-	ctive evidence assessed / Observations / Comments					
NP.	17 Reports - 559-50200- Sp St. Prog. From Man 999-50431- 50 St. Prog. Regists for la local 958-57000- Press. Payloads Into face k	ls Reputs	25	dop c	 " - 7.	 ا ا
lei	and baseline master schedule - begin 2006 Add 4/2/03 Project Schedule through C7 2006 Add 4/2/03	720	10	O(AF C	,,	7
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3.4	S: Satisfactory - CAR: Corrective action required - MA: Major corrective action - mi: Min  NA: Not applicable; NE: Not evaluated - P: Product - M: Management  Cal Design Review Atta 4/18/02  And Development Team Rossies Atta 3/20/03	or corrective	e action			

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QUALITY SYSTEM QUESTIONNAIRE	KEY	S	CAR	N/A	N/E
ASSESSMENT QUESTIONS	Requirements		Number Ma or mi	N/A	TAVE
Product realization (continued) 3.6. Design and development validation					
29 Is design and development validation performed in accordance with planned arrangements (see 7.3.1) to ensure that the resulting product is capable of meeting the requirements for the specified application or intended use, where known?	Р	3			Ţ
30 Wherever practicable, is validation completed prior to the delivery or implementation of the product?		្តន	) 	- (j	7
31 Are records of the results of validation and any necessary actions maintained (see 4.2.4)	1	. <b>:\$</b> .	L	1,	1
Note:  - Design and/or development validation follows successful design and/or development verification.  - Validation is normally performed under operating conditions.  - Validation is normally performed on the final product, but may be necessary in the earlier stages prior to pre-Multiple validations may be performed if there are different intended uses.  3.6.1. Documentation of design and/or development verification and validation  32 At the completion of design and/or development, does the organization ensure that reports, calculations, test results, etc., demonstrate that the product definition meets the	M	pletion			
specification requirements for all identified operational conditions?	<u> </u>	2		1	ļ.
Where tests are necessary for verification and validation, are these tests planned, controlled reviewed, and documented to ensure and prove the following:  a) test plans or specifications identify the product being tested and the resources being used, define test objectives and conditions, parameters to be recorded, and relevant acceptance criteria?  b) test procedures describe the method of operation, the performance of the test, and the recording of the results?  c) the correct configuration standard of the product is submitted for the test?  d) the requirements of the test plan and the test procedures are observed?  e) the acceptance criteria are met?	1) P	S			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Give an example of a qualification report					=
Objective evidence assessed / Observations / Comments  RISK Managent Plan MSR F-PLAN- CONO  Wer fical Validation or regarts of 558 57000  Otry Status Reviews (3/20/03)  Weekly Prod Dev Term Mas  Critical Obsign Review (4/18/02)			· · · · · ·		
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S: Satisfactory - CAR: Corrective action required - MA: Major corrective action - m1: Minor corrective action N/A: Not applicable - N/E: Not evaluated - P: Product - M: Management

-	QUALITY SYSTEM QUESTIONNAIRE	KEY	S	CAR	N/A	N/E
	ASSESSMENT QUESTIONS	Requirements		Number Ma or mi		
7 7.3.7	Product realization (continued)  Control of design and development changes					
34	Are design and development changes identified and records maintained?					1
35	Are the changes reviewed, verified and validated, as appropriate, and approved before implementation?	1) P			-      -    <u> </u>	
36	Does the review of design and development changes include evaluation of the effect of the changes on constituent parts and product already delivered?	b			-	
37	Does the organization's change control process provide for customer and/or regulatory authority approval of changes, when required by contract or regulatory requirement?		-		- 1	1
	Are records of the results of the review of changes and any necessary actions maintained (see 4.2.4)?		-   -		-	<u>:</u>
7.4 7.4	Purchasing 1. Purchasing process					٠.
39	Does the organization ensure that purchased product conforms to specified purchase requirements?		12		7	
40	is the type and extent of control applied to the Supplier and the purchased product dependent upon the effect of the purchased product on subsequent product realization or the final product?	[	1.5			
41	Does the organization evaluate and select Suppliers based on their ability to supply product in accordance with the organization's requirements?		15			
_	Are criteria for selection, evaluation and re-evaluation established? Award tee		<u>5</u>		4	
	Are records of the results of evaluations and any necessary actions arising from the evaluation maintained (see 4.2.4)?		<u> </u> -5'			
44	Does the organization :	M			1	
	<ul> <li>a) maintain a register of approved Suppliers that includes the scope of the approval?</li> <li>b) Periodically review Suppliers performance and use the records of these reviews as a basis for establishing the level of controls to be implemented?</li> </ul>	2)				
	c) define the necessary actions to take when dealing with Suppliers that do not meet requirements?	3)	N 1			
	d) ensure where required that both the organization and all Suppliers use customer- approved special process sources? " ***		)			1
	e) ensure that the function having responsibility for approving Supplier quality systems has the authority to disapprove the use of sources?		5			
2)	Give an example Current list of approved Suppliers Suppliers performance / measurement system (e.g., supplier rating, etc.,)					
Obj	ective evidence assessed / Observations / Comments		ر درانده			
G	- Lockhed Martin - Lotens Tark		. 4.			1
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QUALITY SYSTEM QUESTIONNAIRE

ASSESSMENT QUESTIONS

	Mac	mi
7 Product realization (continued)		
7.4. Purchasing (continued)		
7.4.2. Purchasing information		
45 Does purchasing information describe the product to be purchased, including whi	ere appropriate: 1) P	
	,	
a) requirements for approval of product, procedures, processes and equipments for approval of product, procedures, processes and equipments for approval of product, procedures, processes and equipments.	""   ! i • • • • • • • • • • • • • • • • • •	,
b) requirements for qualification of personnel?		;
c) quality management system requirements?	altinations .	
d) the name or other positive identification, and applicable issues of spe		,
drawings, process requirements, inspection instructions and other re	revant technical	*
	etracetions for	;
<ul> <li>e) requirements for design, test, examination, inspection and related ins acceptance by the Supplier?</li> </ul>	1: 12	
f) requirements for test specimens (e.g., production method, number, st	torage conditions)	7
for design approval, inspection, investigation or auditing?	1 5	
g) requirements relative to :	tian	į.
- supplier notification to Supplier of nonconforming product? and	organisation	
- arrangements for Supplier approval of supplier nonconforming mate		,
h) requirements for the supplier to notify the Supplier of changes in pro-	duct and/or	,
process definition and, where required, obtain organization approval?	· !: \$23.	1
i) /right of access by the organization, their customer, and regulatory aut		;
	FAIL (CERYS)	
<li>j) requirements for the supplier to flow down to sub-tier suppliers the ap</li>		ý
requirements in the purchasing documents, including key characterist	tics where	\$ ·
required?		
46 Does the organization ensure the adequacy of specified purchase requirements p	rior to their	
communication to the supplier?		
Examine purchase orders that apply to several types of procurement.		
Objective evidence assessed / Observations / Comments		
Objective evidence assessed / Observations / Comments		
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QUALITY SYSTEM QUESTIONNAIRE					
ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	N/E
7 Product realization (continued) 7.3.7. Control of design and development changes					
34 Are design and development changes identified and records maintained?		15	,	1	,
35 Are the changes reviewed, verified and validated, as appropriate, and approved before implementation? House Conf. Carlos Board.	1) P	S		-     -	-
36 Does the review of design and development changes include evaluation of the effect of the changes on constituent parts and product already delivered?	P	3			
37 Does the organization's change control process provide for customer and/or regulatory authority approval of changes, when required by contract or regulatory requirement?		5		  - 	-{
38 Are records of the results of the review of changes and any necessary actions maintained (see 4.2.4)? ON-LINK MENT SITTED (OPMS)		2			1
7.4 Purchasing and CPTAS (Charge Processary Tracky + Accomby Sign 7.4.1. Purchasing process	leu)				
39 Does the organization ensure that purchased product conforms to specified purchase requirements?	1	111	1	11:	: ]
40 Is the type and extent of control applied to the Supplier and the purchased product dependent upon the effect of the purchased product on subsequent product realization or the final product?					
41 Does the organization evaluate and select Suppliers based on their ability to supply product in accordance with the organization's requirements?				11	
42 Are criteria for selection, evaluation and re-evaluation established?				ή	
43 Are records of the results of evaluations and any necessary actions arising from the evaluation maintained (see 4.2.4)?		,			
44 Does the organization :	M	n !		1	
a) maintain a register of approved Suppliers that includes the scope of the approval?	2);				. 1
b) Periodically review Suppliers performance and use the records of these reviews as a	2)				
basis for establishing the level of controls to be implemented?		į.		!	; }
c) define the necessary actions to take when dealing with Suppliers that do not meet requirements?	(3)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
d) ensure where required that both the organization and all Suppliers use customer- approved special process sources?		3			
<ul> <li>e) ensure that the function having responsibility for approving Supplier quality systems has the authority to disapprove the use of sources?</li> </ul>					
1) Give an example 2) Cuπent list of approved Suppliers 3) Suppliers performance / measurement system (e.g., supplier rating, etc.,)	-				
Objective evidence assessed / Observations / Comments  Revised changes to SSP 57000 Re E to F  The ODOI - Incarps. SSC DO04176 + 663970.  Revisend changes to MSFC - PLAN - 2902 (5/9/02)	pera	tin	s[u/i	3/0	5
Reviewed changes to MSFC-PLAN-2902 (5/9/02:	+4/20/6	3)	)		
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QUALITY SYSTEM QUESTIONNAIRE ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number	N/A	N/E
Product realization (continued)  4. Purchasing (continued)  4.2. Purchasing information			Ma or mi	J	
45 Does purchasing information describe the product to be purchased, including where appropriate:  a) requirements for approval of product, procedures, processes and equipment?  b) requirements for qualification of personnel?  c) quality management system requirements?  d) the name or other positive identification, and applicable issues of specifications, drawings, process requirements, inspection instructions and other relevant technical data?  e) requirements for design, test, examination, inspection and related instructions for acceptance by the Supplier?  f) requirements for test specimens (e.g., production method, number, storage conditions) for design approval, inspection, investigation or auditing?  g) requirements relative to:  - supplier notification to Supplier of nonconforming product? and  organisation  h) requirements for the supplier to notify the Supplier of changes in product and/or process definition and, where required, obtain organization approval?  i) right of access by the organization, their customer, and regulatory authorities to all facilities involved in the order and to all applicable records? and  j) requirements for the supplier to flow down to sub-tier suppliers the applicable requirements in the purchasing documents, including key characteristics where required?	1) P	**********************	استان می	***********************	
46 Does the organization ensure the adequacy of specified purchase requirements prior to their communication to the supplier?				1:	,- L.
) Examine purchase orders that apply to several types of procurement.					
Objective evidence assessed / Observations / Comments					

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	QUALITY SYSTEM QUESTIONNAIRE				····		]
	ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	N/E	
	7 Product realization (continued) 7.4. Purchasing (continued) 7.4.3. Verification of purchased product						
	47 Does the organization establish and implement the inspection or other activities necessary for ensuring that purchased product meets specified purchase requirements, they may include obtaining objective evidence of the quality of the product from suppliers (e.g., accompanying documentation, certificate of conformity, test reports, statistical records, process control, inspection and audit at supplier's premises, review of the required documentation, inspection of products upon receipt, and, delegation of verification to the supplier, or supplier certification?	P	5	1			
	48 Is purchased product held until it has been verified as conforming to specified requirements		5	1			
Sturk	Where the organization utilizes test reports to verify purchased product, is the data in those reports acceptable per applicable specifications?  50 Does the organization periodically validate test reports for raw material?	(,1) (1)!	3			 	
a selly	51 Where the organization delegates verification activities to the supplier, are the requirements for delegation defined and a register of delegations maintained?	1),	5	L	),		litter
Stanle Allay . 8730.1	52 Where the organization or its customer intends to perform verification at the supplier's premises, does the organization state the intended verification arrangements and method of product release in the purchasing information?		5				peso
マ	53 Where specified in the contract, is the customer or the customer's representative afforded the right to verify at the supplier's premises and the organization's premises that subcontracted product conforms to specified requirements?		3	1	, ,		
1280.1	54 It is ensured that verification by the customer is not used by the organization as evidence of effective control of quality by the supplier (it does not absolve the organization of the responsibility to provide acceptable product, nor shall it preclude subsequent rejection by the customer)?		5		7		\ •
] 7	) Give an example Dispective evidence assessed / Observations / Comments						
-	Contract Admin Out sourcing	lw∓ R	ev -			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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	ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	N/E
7	Product realization (continued)					
7.5.	Production and service provision					
7.5.1.	Control of production and service provision					_
55	Does planning consider, as applicable :	,				
	- the establishment of process controls and development of control plans where key characteristics have been identified	1	1			
	b) - the identification of in-process verification points when adequate verification of conformance cannot be performed at a later stage of realization				1	1
	<ul> <li>the design, manufacture, and use of tooling so that variable measurements can be taken, particularly for key characteristics, and</li> </ul>					
	d) - special processes (see 7.5.2).		_ ;		;	1
	Does the organization plan and carry out production and service provision under controlled conditions,	1)				7,5 4
	Do these controlled conditions include, as applicable:	1 1	1			1 7
	a) the availability of information that describes the characteristics of the product?		]		,	į,
	b) the availability of work instructions, as necessary?		3		1	177
	c) the use of suitable equipment?		1	3	: (	i .
	d) the availability and use of monitoring and measuring devices?		- 5	. 1	; {	;
	e) the implementation of monitoring and measurement,		j,	[	: 1	r
	n) the implementation of release, delivery and post-delivery activities?	· #	1	į	}	ł
	<ul> <li>accountability for all product during manufacture (e.g., parts quantities, split orders, nonconforming product)?</li> </ul>			- 1		1
	h) evidence that all manufacturing and inspection operations have been completed as planned, or as otherwise documented and authorized?	P	بار سر. ا			
	provision for the prevention, detection, and removal of foreign objects?	Pi i	- 13	i		
,	) monitoring and control of utilities and supplies such as water, compressed air, efectricity and chemical products to the extent they affect product quality? and		1	1		1
	<ul> <li>criteria for workmanship, which shall be stipulated in the clearest practical manner (e.g., written standards, representative samples or illustrations)?</li> </ul>		- B1			1

7-18-

Objective evidence assessed / Observations / Comments

S: Salisfactory - CAR: Corrective action required - MA: Major corrective action - mi: Minor corrective action N/A: Not applicable - N/E: Not evaluated - P: Product - M: Management

	QUALITY SYSTEM QUESTIONNAIRE	•	,			
	ASSESSMENT QUESTIONS	KEY Recoverments	s	CAR Number Ma or mi	N/A	N
.4. .4.3.	Product realization (continued) Purchasing (continued) Verification of purchased product					
47	Does the organization establish and implement the inspection or other activities necessary for ensuring that purchased product meets specified purchase requirements, they may include obtaining objective evidence of the quality of the product from suppliers (e.g., accompanying documentation, certificate of conformity, test reports, statistical records, process control, inspection and audit at supplier's premises, review of the required documentation, inspection of products upon receipt, and, delegation of verification to the supplier, or supplier certification?	P	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 11 11 11 11 11		
48	Is purchased product held until it has been verified as conforming to specified requirements unless it is released under positive recall procedure?		-			Ti
	Where the organization utilizes test reports to verify purchased product, is the data in those reports acceptable per applicable specifications?	,1)			,,	Ţ.
50	Does the organization periodically validate test reports for raw material?	1);			315	E
	Where the organization delegates verification activities to the supplier, are the requirements for delegation defined and a register of delegations maintained?	1),	- - - -		,	1
	Where the organization or its customer intends to perform verification at the supplier's premises, does the organization state the intended verification arrangements and method of product release in the purchasing information?	,	1 1 1	,		
	Where specified in the contract, is the customer or the customer's representative afforded the right to verify at the supplier's premises and the organization's premises that subcontracted product conforms to specified requirements?					-  -
	It is ensured that verification by the customer is not used by the organization as evidence of effective control of quality by the supplier (it does not absolve the organization of the responsibility to provide acceptable product, nor shall it preclude subsequent rejection by the customer)?				}	1 .
) Giv	e an example					
Obje	ective evidence assessed / Observations / Comments					<u>-</u> .

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-	QUALITY SYSTEM QUESTIONNAIRE					
• •	ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	N/E
	7 Product realization (continued) 7.5. Production and service provision 7.5.1. Control of production and service provision					
ASPE PLAN	55 Does planning consider, as applicable: Pon at Plans	1				 -
18FC-PUI	b) - the identification of in-process verification points when adequate verification of conformance cannot be performed at a later stage of realization		5		2 2	
	<ul> <li>the design, manufacture, and use of tooling so that variable measurements can be taken, particularly for key characteristics, and</li> </ul>				4 4 5 4	
	d) - special processes (see 7.5.2).	1			£ ;	
	56 Does the organization plan and carry out production and service provision under controlled conditions.  Co	1)				 ! !
	a) the availability of information that describes the characteristics of the product?		: <u>1</u>	1 1	: }	1
. ,	b) the availability of work instructions, as necessary?		: }	:	[ ]	1
	c) the use of suitable equipment?	}	0	•	; {	
	d) the availability and use of monitoring and measuring devices?	, ,			:	:
	e) the implementation of monitoring and measurement,	1 1			; ;	! !
	the implementation of release, delivery and post-delivery activities?	1	1	1	: }	l !
	<ul> <li>g) accountability for all product during manufacture (e.g., parts quantities, split orders, nonconforming product)?</li> </ul>				}	
	h) evidence that all manufacturing and inspection operations have been completed as planned, or as otherwise documented and authorized? In Date 1900 Operation	APY	الر. سر - ا ا		= = 4	
	i) provision for the prevention, detection, and removal of foreign objects?	P	الم		; ;\	
	monitoring and control of utilities and supplies such as water, compressed air,		コ#	- :	, ,1	
	electricity and chemical products to the extent they affect product quality? and		1:	3	i	
	<ul> <li>criteria for workmanship, which shall be stipulated in the clearest practical manner (e.g., written standards, representative samples or illustrations)?</li> </ul>					
	1) Give an example					

Test Readings Review 4 SISTON /
Rev. Checklists

Test Project # 12360 / Testler T5300 - review of Test Plan +
Test Regards Due
Risk Assessment 5/12/03

TRD - 5/7/03 Neihed acceptance with well defind with Project + Last Plans.

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Are production equipment, tools and programs validated prior to use and maintained and inspected periodically according to documented procedures? Both 1872.5  65 Does validation prior to production use include verification of the first article produced to the design data/specification?  66 Are storage requirements, including periodic preservation/condition checks, established for production equipment or tooling in storage?  5.1.4. Control of work transferred, on a temporary basis, outside the organization's facilities of when planning to temporarily transfer work to a location outside the organization's facilities, does the organization define the process to control and validate the quality of the work?  10 Clearly defined list  10 Disjective evidence assessed / Observations / Comments  Cust Lockheed Marta — 9hather facilities in very particular of the work?  11 Clearly defined list  12 Departs and the second of the process of the proces	QUALITY SYSTEM QUESTIONNAIR	E					
15.1.1. Production documentation  57 Are Production operations carried out in accordance with approved data?  58 Does the date contain as necessary:  a) drawings, parts lists, process flow charts including inspection operations, production documents (e.g., manufacturing plans, traveler, router, work order, process cards); and inspection documents (see 2.4.1) and manufacturing plans, traveler, router, work order, process cards); and inspection documents (see 2.4.1) and manufacturing plans, traveler, router, work order, process cards); and inspection documents (see 2.4.1) and manufacturing plans, traveler, router, work order, process cards); and inspection documents (see 2.4.1) and processes cards); and inspection documents (see 2.4.1) and processes identified?  5.1.2 Control of production process changes to production processes identified?  6.1. Has the organization identified and obtained acceptance of changes that require customer and/or regulatory authority approval in accordance with contract or regulatory requirements?  6.2. Are procedures available to control their implementation?  6.3. Are the results of changes to production organization?  6.4. Are productive of changes in production and numerical control (N.C.) machine programs  6.5. Are the results of changes to production and control (N.C.) machine programs  6.5. Does validation prior to production use effects to product quality?  6.5. Are control of production equipment, tools and programs validated prior to use and maintainers find inspected periodically according to documented procedures? Do ME 5732.5  6. Are storage requirements, including periodic preservation/condition checks, established for production use include verification of the first article produced to the design data/specification?  6. Are storage requirements, including periodic preservation/condition checks, established for production accuments, including periodic preservation/condition checks, established for production accuments, including periodic preservation of the graph of the w	ASSESSMENT QUESTIONS		S	Number	N/A	N/E	
a) drawings, parts lists, process flow charts including inspection operations, production documents (e.g., manufacturing plans, traveler, router, work order, process cards); and inspection documents (see 8.2.4.1)? and b) a list of specific or non-specific tools and numerical control (NC) machine programs required and any specific instructions associated with their use?  5.1.2. Control of production process changes  50 Are persons authorized to approve changes to production processes identified?  60 Has the organization identified and obtained acceptance of changes that require customer and/or regulatory authority approval in accordance with contract or regulatory requirements?  61 Are changes affecting processes, production equipment, tools and programs documented?  62 Are procedures available to control their implamentation?  63 Are the results of changes to production processes assessed to confirm that the desired effect has been achieved without adverse effects to product quality?  63. Are the results of changes to production and numerical control (NC) machine programs  64 Are production equipment, tools and programs validated prior to use and maintaineyfind inspected pariodicity according to documented procedures? [Ap. 1146-1132.5]  65 Are storage requirements, including periodic preservation/condition checks, established for production use include varification of the first article produced to the design data/specification?  66 Are storage requirements, including periodic preservation/condition checks, established for production equipment to tooling in storage?  67 Are storage requirements, including periodic preservation/condition checks, established for production equipment to tooling in storage?  68 Are production equipment to tooling in storage?  69 Are production equipments, including periodic preservation/condition checks, established for production equipments, and tooling in storage?  60 Are storage requirements, including periodic preservation/condition checks, established for production equipments,	· · · · · · · · · · · · · · · · · · ·						
a) drawings, parts lists, process flow charts including inspection operations, production documents (e.g., manufacturing plans, traveler, router, work order, process cards); and inspection documents (see 8.2.4.17 and b) a list of specific or non-specific tools and numerical control (NC) machine programs required and any specific instructions associated with their use?  5.1.2. Control of production process changes  5.5. Are persons authorized to approve changes to production processes identified?  5.5. Are presents authorized to approve changes to production processes identified?  6.5. Are programation identified and obtained acceptance of changes that require customer and/or regulatory authority approval in accordance with contract or regulatory requirements?  6.7. Are changes affecting processes, production equipment, tools and programs documented?  6.8. Are procedures available to control their implamentation?  6.9. Are procedures available to control their implamentation?  6.9. Are production equipment, tools and numerical control (N.C.) machine programs  6.4. Are production equipment, tools and numerical control (N.C.) machine programs  6.5. Are strong equipment, tools and numerical control (N.C.) machine programs  6.5. Are strong requirements, including periodic preservation/condition checks, established for production equipment or tooling in storage?  6.5. Are strong requirements, including periodic preservation/condition checks, established for production equipment or tooling in storage?  6.5. Are strong requirements, including periodic preservation/condition checks, established for production equipment or tooling in storage?  6.5. Are strong requirements, including periodic preservation/condition checks, established for production equipment or tooling in storage?  6.5. Are strong requirements, including periodic preservation/condition checks, established for production equipment or temporary basis, outside the organization's facilities, does the organization define the process to control and validate th	57 Are Production operations carried out in accordance with approved data?	1	13	1			
production documents (e.g., manufacturing plans, traveter, router, work order, process cards); and inspection documents (see 8.24.1)? and  b) a list of specific or non-specific tools and numerical control (NC) machine programs required and any specific instructions associated with their use?  5.1.2. Control of production processes changes  5.5. Are persons authorized to approve changes to production processes identified?  5.6. Has the organization identified and obtained acceptance of changes that require customer andor regulatory authority approval in accordance with contract or regulatory requirements?  5.6. Are procedures available to control their implamentation?  5.7. Are procedures available to control their implamentation; tools and programs documented?  5.7. Are procedured available to control their implamentation?  5.7. Are procedured available to control their implamentation.  6.7. Are procedured available to control their implamentation.  6.8. Are production equipment, tools and numerical control (N.C.) machine programs.  6.9. Are production equipment, tools and numerical control (N.C.) machine programs.  6.9. Are production equipment, including periodic procedures? [D M& 5730.5]  6.9. Does validation prior to production use include verification of the first article produced to the design data/specification?  6.9. Are production equipment, including periodic preservation/condition checks, established for production equipment or tooling in storage?  6.7. Are production equipment, including periodic preservation/condition checks, established for production equipment, tooling in storage?  6.7. Are proved to experiment to the	58 Does the data contain as necessary:	P					
15.1.2. Control of production process changes to production processes identified?  10 M	production documents (e.g., manufacturing plans, traveler, router, work order, process cards); and inspection documents (see 8.2.4.1)? and  b) a list of specific or non-specific tools and numerical control (NC) machine programs	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5	1	1	1	
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Approval anthorities are identified in project places							
est-Grand Leader - Ed.	Approval authorities are identified in project pl	r-Ins kus	frin	etaŁ	PR	3at 1	3
( * 1 U/F   1 \ 1 \ 2 \ 2 \ 1 \ \ 1 \ 1 \ 2 \ 1 \ 2 \ 1 \ 2 \ 1 \ 2 \ 1 \ 2 \ 2	of Group Leader - Ed. +MB representation		;				

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	QUALITY SYSTEM QUESTIONNAIRE					
	ASSESSMENT QUESTIONS	KEY Requirements	s	CAR Number Ma or mi	N/A N/	E
7 7.5.1	Product realization (continued) 5. Control of service operations					
7.5.2	Where servicing is a specified requirement, do service operation processes provide for:  a) a method of collecting and analyzing in-service data?  b) actions to be taken where problems are identified after delivery, including investigation, reporting activities, and actions on service information consistent with contractual and/or regulatory requirements?  c) the control and updating of technical documentation?  d) the approval, control, and use of repair schemes? and,  e) the controls required for off-site work (e.g., organization's work undertaken at the customer's facilities)?  Validation of processes for production and service provision	1), 2)			<b>V</b>	
69	Does the organization validate any processes for production and service provision where the resulting output cannot be verified by subsequent monitoring or measurement (This includes any processes where deficiencies become apparent only after the product is in use or the service has been defivered)?  Note: These processes are frequently referred to as special processes.	4) P				-
70	Does validation demonstrate the ability of these processes to achieve planned results?		1	, ,	V	يخ
	Has the organization established arrangements for these processes including, as applicable:  a) defined criteria for review and approval of the processes?  b) qualification and approval of special processes prior to use?  c) approval of equipment and qualification of personnel?  d) use of specific methods and procedures?  e) Control of the significant operations and parameters of special processes in accordance with documented process specifications and changes thereto?  f) requirements for records (see4.2.4)? and  p) revalidation?  Review reports issued following visits to the customer (technical support). Comment on method of colleges of implementation of corrective and preparations.	M5),	ر الله الله الله الله الله الله الله الل	Jata. Exami	ne some	
3) 4) 5)	vidence of implementation of corrective and preventive actions. vidence of what has been assessed( e.g.;; maintenance manual, repair manual, information to custon ist of special processes. itive examples ective evidence assessed / Observations / Comments					
	of A-one signt/validation of test Gaility - 2 S-test proportione - 300-0715-M of Procedure - release 1, 2, 3 364-TCP-C mys can be pulmed in fly - Test Proj Brg to review upon endeting in the contomer.		4	leste coz,	003	
Q.	eldy Records Custodian				<u></u>	_]

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	QUALITY SYSTEM QUESTIONNAIRE				1	,
	ASSESSMENT QUESTIONS	Requirements	s	CAR Number Ma or mi	N/A	NA
	7 Product realization (continued) 7.5.3. Identification and traceability					
	72 Where appropriate, has the organization identified the product by suitable means throughout product realization?		\ <u>\</u>	); };		-
	73 Does the organization maintain the identification of the configuration of the product in order to identify any differences between the actual configuration and the agreed configuration?	Pi	5	1,		}
	74 Has the organization identified the product status with respect to monitoring and measurement requirements?		5	1, 1,:		}
	When acceptance authority media are used (e.g., stamps, electronic signatures, passwords), does the organization astablish and document controls for the media? MIG-8730. 2	1);	S			, i
	76 Where traceability is a requirement, does the organization control and record the unique identification of the product (see 4.2.4)?		11			11
•	77 According to the level of traceability required by contract, regulatory, or other established requirement, does the organization's system provide for:  a) identification to be maintained throughout the product life?	2) P		\	-, -	
	b) all the products manufactured from the same batch of raw material or from the same manufacturing batch to be traced, as well as the destination (delivery, scrap) of all products of the same batch?	1	S	1 <sub>1</sub> 1 <sub>2</sub> 1 <sub>4</sub> 1 <sub>4</sub> 1 <sub>5</sub>		
	c) In any assembly, the identity of its components and those of the next higher assembly to be traced?  d) In any given product, a sequential record of its production (manufacture, assembly,			); ); 1; 1;		1
	inspection) to be retrieved? review 96 M 25110 -bol Rev 3  Note: In some industry sectors, configuration management is a means by which identification and traceability	is maintain	g	<u> </u>	<u> </u>	1
i	7.5.4. Customet property  78 Does the organization exercise care with customer property while it is under the organization's	3),	r	9	·	;;-
`	control or being used by the organization? Types— Lest Hardware for the St.  79 Has the organization identified, verified, prolected and safeguarded customer properly provided for	P'	5	11 11 11	1 <u>;</u> 15	1
	use or incorporation into the product? labelled flagger - last TD & ozwer TD  80 Does the organization define methods to identify and record customer products that are lost.		5	ት ት <del>የተመመመ</del>		-
	damaged or otherwise made unusable and report such to the customer?		5	 		
	Note: Customer property can include intellectual property, including customer furnished data used for des    Give the method used	sign, produc	tion a	nd/or insp	ection	<u>-</u>
	Objective evidence assessed / Observations / Comments	PARO	BO	n		_
	Test Stand 300					
	Project # P2360-001,002-003 Full Test					
	Fest Article serialized by Costomer - one-as	R-a-k	·Ld	fest	av	Ļ
	Test data delivered to customer via suvere	acces	s /	/C <i>የ</i> , <sup>2</sup>	•	
(	Duckity Into Systems Analyst - Custodian Out of / Seet 5	taps			<del></del>	
	North Rebeck Solver #59  Novi and Strap Control 1157 + 5142 lon. Masson Romes  S: Satisfactory- CAR: Corrective action - mi: Min	Sew	res			

QUALITY SYSTEM QUESTIONNAIRE

	KEY Reactirements	s	CAR Number Ma or mi	N/A	N/E
Product realization (continued)  5. Preservation of product					
1 Does the organization preserve the conformity of product during internal processing and deliver the intended destination?	ry to	9			1
2 Does the preservation include identification, handling, packaging, storage and protection?		15	7		7-
3 Does preservation also apply to the constituent parts of a product?	,	13		-	~
4 Does preservation of product also include, where applicable in accordance with product specifications and/or regulations, provisions for:	P				
a) cleaning?		. 15	\$	<u> </u>	ļ
b) prevention, detection and removal of foreign objects?		. 25	1		i,
c) special handling for sensitive products?		.}.₹.	1	- }	ig
d) marking and labeling including safety warnings?		.].\$.	1	]	7
e) shelf life control and stock rotation?		. <u>}. s</u> .		.]	7
f) special handling for hazardous materials?	<u> </u>	. 3.5			7
Does the organization ensure that documents required by the contract/order to accompa the product are present at delivery and are protected against loss and deterioration?	ny	15	}	}	1, 1
Resilved unique hading regula ID'd in the Text Detate.  The Text Detate.  The was given carbacher - shippi / received regular appliance of the Reguest - hadrae HSF 542003D #	- Cort	ez.	Poo	ed	

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QUALITY SYSTEM QUESTIONNAIRE					
ASSESSMENT QUESTIONS	KEY Requirements	s	CAR Number Ma or mi	N/A	N/E
7 Product realization (continued) 7.6. Control of monitoring and measuring devices					,
86 Does the organization determine the monitoring and measurement to be undertaken and the monitoring and measuring devices needed to provide evidence of conformity of product to determined requirements (see 7.2.1)?					ار ارا ارا
87 Does the organization maintain a register of these monitoring and measuring devices, and define the process employed for their calibration including details of equipment type, unique identification, location, frequency of checks, check method and acceptance criteria?		# P P P P P P P P P P P P P P P P P P P	}		1, 1, 1,
Note: Monitoring and measuring devices include, but are not limited to: test hardware, test software, automated test equipment (ATE) and plotters used to produce inspection data. It also includes personally owned and customer supplied equipment used to provide evidence of product conformity.	i i				
88 Does the organization establish processes to ensure that monitoring and measurement can be carried out and are carried out in a manner that is consistent with the monitoring and measurement requirements?		10 00 00 00 00 00 00 00 00 00 00 00 00 0			ا الو الو الو الو
89 Does the organization ensure that environmental conditions are suitable for the calibrations, inspections, measurements and tests being carried out?			}	}	15 m 1 1 <sub>1</sub>
90 Where necessary to ensure valid results, is measuring equipment:  a) calibrated or verified at specified intervals, or prior to use, against measurement standards iraceable to international or national measurement standards; where no such standards exist, the basis used for calibration or verification shall be recorded?  b) adjusted or re-adjusted as necessary?  c) identified to enable the calibration status to be determined?  d) safeguarded from adjustments that would invalidate the measurement result?  e) protected from damage and deterioration during handling, maintenance and storage?  f) recalled to a defined method when requiring calibration?  91 Does the organization assess and record the validity of the previous measuring results when the equipment is found not to conform to requirements?  92 Does the organization take appropriate action on the equipment and any product affected?  93 Are records of the results of calibration and verification maintained (see 4.2.4)?  94 When used in the monitoring and measurement of specified requirements, is the ability of computer software to satisfy the intended application confirmed?	1); P				
95 Is this undertaken prior to initial use and reconfirmed as necessary?  1) Ensure the links to the recognized international / national standard.					
Objective evidence assessed / Observations / Comments					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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QUALITY SYSTEM QUESTIONNAIRE					
ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	N/E
8 Measurement, analysis and improvement 8.1. General			4		
01 Does the organization plan and implement the monitoring, measurement, analysis and improvement processes needed:	1) M				
a) to demonstrate conformity of the product?					,
b) to ensure conformity of the quality management system, and?	====				
c) to continually improve the effectiveness of the quality management system?					
02 Does this include determination of applicable methods, including statistical techniques, and the					
extent of their use?	<u> </u>		· · · · · ·		
Note: According to the nature of the product and depending on the specified requirements, statistic - design verification (e.g., reliability, maintainability, safety); - process control:	al technique	es ma	y be used t	o sup	port:
<ul> <li>selection and inspection of key characteristics;</li> </ul>					
- process capability measurements; - statistical process control;					
- design of experiment; - inspection – matching sampling rate to the criticality of the product and to the process capability.		. • .			
- failure mode and effect analysis.	· · · · · · · · · · · · · · · · · · ·				
8.2. Monitoring and measurement 8.2.1. Customer satisfaction			•		
	2) M				
04 As one of the measurements of the performance of the quality management system, does the organization monitor information relating to customer perception as to whether the		51	\$	3	
organization has met customer requirements?	}	/ ;	1	į	
05 Are the methods for obtaining and using this information determined?	* * * * * * * * * * * * * * * * * * *	37	<del></del> }		
8.2.2. Internal audit					
Does the organization conduct internal audits at planned intervals to determine whether the quality management system :					
<ul> <li>conforms to the planned arrangements (see 7.1), to the requirements of this international Standard and to the quality management system requirements established by the organization? and</li> </ul>	}		}		
b) is effectively implemented and maintained?	:::::}			= =	
Sive examples of data     Give examples of how customer's satisfaction is measured, committed, and acted upon.					
Objective evidence assessed / Observations / Comments					
F.2.1 C5 database -					1
Cust. Sat somes repeated to Mant 1	ler.				1
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	ASSESSMENT QUESTIONS	KEY Requerments	S	Number Me or mi	N/A	N/E
7	Product realization (continued) Control of monitoring and measuring devices				4.	
86	Does the organization determine the monitoring and measurement to be undertaken and the monitoring and measuring devices needed to provide evidence of conformity of product to determined requirements (see 7.2.1)?		S	)	-	ا ا ا ا
87	Does the organization maintain a register of these monitoring and measuring devices, and define the process employed for their calibration including details of equipment type, unique identification, location, frequency of checks, check method and acceptance criteria?		5		4	7 7 7 7
soft	ote: Monitoring and measuring devices include, but are not limited to: test hardware, test ftware, automated test equipment (ATE) and plotters used to produce inspection data. It also cludes personally owned and customer supplied equipment used to provide evidence of	and a				
88	Does the organization establish processes to ensure that monitoring and measurement can be carried out and are carried out in a manner that is consistent with the monitoring and measurement requirements?	7860	S	,	11	14 14
	poes the organization ensure that environmental conditions are suitable for the calibrations, inspections, measurements and tests being carried out?		S			1, 1,
1 2	where necessary to ensure valid results, is measuring equipment:  a) calibrated or verified at specified intervals, or prior to use, against measurement standards traceable to international or national measurement standards; where no such standards exist, the basis used for calibration or verification shall be recorded?	1)	S			
1	b) adjusted or re-adjusted as necessary? c) identified to enable the calibration status to be determined? I have safeguarded from adjustments that would invalidate the measurement result? Seal 9		S		1 1	] ]
91	e) protected from damage and deterioration during handling, maintenance and storage?  n) recalled to a defined method when requiring calibration? — W. J.		3			1
92 [	equipment is found not to conform to requirements?  Does the organization take appropriate action on the equipment and any product affected?  Are records of the results of calibration and verification maintained (see 4.2.4)?	P'	\$	3-E-E-E-E	 	
94 V	When used in the monitoring and measurement of specified requirements, is the ability of computer software to satisfy the intended application confirmed?	P,	5			
95 1	Is this undertaken prior to initial use and reconfirmed as necessary?		12			ليا
MG MG MG MG MG			19c. 1	Tet.		

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		IONNAIRE	1 100000	Ť-	000	Table 1	
ASSESSMENT QUEST	TIONS.	,	KEY Requirements	s	CAR Number Ma or mi	N/A N/E	
Measurement, analysis and improvement 1. General		<u></u>			,		
Does the organization plan and implement the monitoring, improvement processes needed:	measurement, analysis	and	1) M				
a) to demonstrate conformity of the product?			<u> </u>	<u> </u>		ļ ļ	- }
b) to ensure conformity of the quality management system	m, and?		F====	[]			-}
c) to continually improve the effectiveness of the quality is	management system?	•	F====			[-]-]	-]
Does this include determination of applicable methods, included extent of their use?	duding statistical technic	ues, and the					
<ul> <li>lote: According to the nature of the product and depending design verification (e.g., reliability, maintainability, safety)</li> <li>process control:</li> <li>selection and inspection of key characteristics;</li> <li>process capability measurements;</li> </ul>		irements, statisti	cal techniqu	es ma	y be used t	o support	
statistical process control; design of experiment; inspection – matching sampling rate to the criticality of the failure mode and effect analysis.	ne product and to the p	process capability	;				
2. Monitoring and measurement 2.1. Customer satisfaction		•			•		
As one of the measurements of the performance of the organization monitor information relating to customer p			2) M			}	
organization has met customer requirements?				•		j.	
05 Are the methods for obtaining and using this information 2.2. Internal audit	on determined?		7				
Does the organization conduct internal audits at planne quality management system:  conforms to the planned arrangements (see 7.1), to the Standard and to the quality management system required organization? and	h and it then the requirements of this	Scope ZA		S 3			-
b) is effectively implemented and maintained?				2			
Give examples of data Give examples of how customer's satisfaction is measured,	committed, and acted u	pon.	-				
bjective evidence assessed / Observations	/ Comments	A	ait M	ل <u>ي.</u>	Acs	+ And	1
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Revend Alt #15							
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ASSESSMENT QUESTIONS					
ACCESSIVE ALL ACCESSIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	N/E
8 Measurement, analysis and improvement (continued) Internal audit (continued)					
07 Is an audit program planned, taking into consideration the status and importance of the processes and areas to be audited, as well as the results of previous audits?	1) M	-		}	
08 Is the audit criteria, scope, frequency and methods defined?	2222	-			,
09 Does the selection of auditors and conduct of audits ensure objectivity and impartiality of the audit process?	2)	}			<del></del>
10 Does the organization ensure internal auditors do not audit their own work?					
11 Are the responsibilities and requirements for planning and conducting audits, and for reporting results and maintaining records (see 4.2.4) defined in a documented procedure?					
12 Do the management responsible for the areas being audited ensure that actions are taken without undue delay to eliminate detected nonconformities and their causes?	3) M				
13 Do follow-up activities include the verification of the actions taken and the reporting of verification results (see 8.5.2)?	3)				· · ·
14. Are detailed tools and techniques developed such as check sheets, process flowcharts, or any similar method to support audit of the quality management system requirements?					
15 Are the selected internal audit tools acceptable in measuring the effectiveness of the internal audit and overall organization performance?					
16 Do internal audits also meet contract and/or regulatory requirements?				}	
2.2.3. Munitoring and measurement of processes					
17 Does the organization apply suitable methods for monitoring and, where applicable, measurement of the quality management system processes?	heerel	5		}	
18 Do these methods demonstrate the ability of the processes to achieve planned results?	-	5		<u></u>	
19 When planned results are not achieved, is correction and corrective action taken, as appropriate, to ensure conformity of the product?	P	5	}	1	
20 In the event of process nonconformity, does the organization :	4) P	$\leq 1$			
a) take appropriate action to correct the nonconforming process?		<u> Σ</u> ς		- 4	3
b) evaluate whether the process nonconformity has resulted in product nonconformity?  and		5}		_ <u> </u>	
c) identify and control the nonconforming product in accordance with clause 8.3.?	[2222]	5-1		<u>[</u> -	1
1): Audit plan (status of the previous year and progress of the current year). 2) List of approved auditors. 3) Evidence of a sample of audits (questionnaire, synthesis, circulation, request for corrective actions, co	prective action	is follo	ow-up).		
Objective evidence assessed / Observations / Comments			3°		
Physoad Operation . Integration Center - Enhanced HOSC System (EHS)	HPR.	D.	9281		
HPR. HOSC Problem Report generated	( <b>7 1 js.</b> 7		1409		1
IVV Metrics Summan					
EHS Functional Status - Problem description	6 - ac	tun	to tak	er-	 . N

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	ASSESSMENT QUESTIONS	KEY Requirements	.g	CAR Number Ma or mi	N/A	N/E
	surement, analysis and improvement (continued) continuing and measurement of product					
21	Does the organization monitor and measure the characteristics of the product to verify that product requirements have been met?	Pı i	2			
22	Is this carried out at appropriate stages of the product realization process in accordance with the planned arrangements (see 7.1)?		3			
23	When key characteristics have been identified, are they monitored and controlled?	P <sub>i</sub>	·			
24	When the organization uses sampling inspection as a means of product acceptance, is the plan statistically valid and appropriate for use?				1	
25	Does the plan preclude the acceptance of lots whose samples have known nonconformities?				V	
26	When required, is the plan submitted for customer approval?				Z	
27	Is product held until it has been inspected or otherwise verified as conforming to specified requirements, except when product is released under positive-recall procedures pending completion of all required measurement and monitoring activities?	Pı	5			
. 28	Is evidence of conformity with the acceptance criteria maintained?		<b>S</b> 2			
29	Do records indicate the person(s) authorizing release of product (see 4.2.4)?		<b>V</b>			
30	Is product release and service delivery held until all the planned arrangements (see 7.1) have been satisfactorily completed, unless otherwise approved by a relevant authority and, where applicable, by the customer?		$\checkmark$		-	

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	OUALITY CYCTEM OUECTIONNAIDE					
	QUALITY SYSTEM QUESTIONNAIRE ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	N/E
	8 Measurement, analysis and improvement (continued) Internal audit (continued)					
	07 Is an audit program planned, taking into consideration the status and importance of the processes and areas to be audited, as well as the results of previous audits?	1) M	5			
	08 is the audit criteria, scope, frequency and methods defined?		<b>3</b> 77	1 E-K 5 E-		
	09 Does the selection of auditors and conduct of audits ensure objectivity and impartiality of the audit process?	2)	ی			
	10 Does the organization ensure internal auditors do not audit their own work?		37			
4PG 1780,6	11 Are the responsibilities and requirements for planning and conducting audits, and for reporting results and maintaining records (see 4.2.4) defined in a documented procedure?		2	,		
	12 Do the management responsible for the areas being audited ensure that actions are taken without undue delay to eliminate detected nonconformities and their causes?	3)_M	5			
	13 Do follow-up activities include the verification of the actions taken and the reporting of verification results (see 8.5.2)?	3)	S			
y (1855).	14 Are detailed tools and techniques developed such as check sheets, process flowcharts, or any similar method to support audit of the quality management system requirements?		S			
•	15 Are the selected internal audit tools acceptable in measuring the effectiveness of the internal audit and overall organization performance?		3	}	}	
	16 Do internal audits also meet contract and/or regulatory requirements?		5	4	}	
	8.2.3. Monitoring and measurement of processes					
	17 Does the organization apply suitable methods for monitoring and, where applicable, measurement of the quality management system processes?			}	3	
	18 Do these methods demonstrate the ability of the processes to achieve planned results?			l	<u> </u>	
	19 When planned results are not achieved, is correction and corrective action taken, as appropriate, to ensure conformity of the product?	,		{	1	
	20 In the event of process nonconformity, does the organization :	4) P		-	1	
	a) take appropriate action to correct the nonconforming process? b) evaluate whether the process nonconformity has resulted in product nonconformity?		= {-		= =	
	and  c) identify and control the nonconforming product in accordance with clause 8.3.?		1			
	1) Audit plan (status of the previous year and progress of the current year). 2) List of approved auditors. 3) Evidence of a sample of audits (questionnaire, synthesis, circulation, request for corrective actions, cond. 4) Give examples of non conformity (product, process,).	rective action	s follow	v-up).		
	Objective evidence assessed / Observations / Comments					$\neg$
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	ASSESSMENT QUESTIONS	KEY Requirements	s	CAR Number Ma or mi	N/A	N/I
	surement, analysis and improvement (continued) contining and measurement of product	,				
21	Does the organization monitor and measure the characteristics of the product to verify that product requirements have been met?	Pi				2
22	Is this carried out at appropriate stages of the product realization process in accordance with the planned arrangements (see 7.1)?					
23	When key characteristics have been identified, are they monitored and controlled?	P'			[]	
24	When the organization uses sampling inspection as a means of product acceptance, is the plan statistically valid and appropriate for use?					<del></del>
25	Does the plan preclude the acceptance of lots whose samples have known nonconformities?		1			
26	When required, is the plan submitted for customer approval?					
27	Is product held until it has been inspected or otherwise verified as conforming to specified requirements, except when product is released under positive-recall procedures pending completion of all required measurement and monitoring activities?	Pi				
28	Is evidence of conformity with the acceptance criteria maintained?			}		
29	Do records indicate the person(s) authorizing release of product (see 4.2.4)?				3	
30	Is product release and service delivery held until all the planned arrangements (see 7.1) have been satisfactorily completed, unless otherwise approved by a relevant authority and, where applicable, by the customer?		***	}		

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QUALITY SYSTEM QUESTIONNAIRE					
ASSESSMENT QUESTIONS	KEY Resultements	S	CAR Number Ma or mi	N/A	N/E
Measurement, analysis and improvement (continued) 3.2.4.1. Inspection documentation		-			
31 Are measurement requirements for product or service acceptance documented?		7			
32 Does this documentation ,which may be part of the production documentation, include :	P				
a) criteria for acceptance and/or rejection?		<			
b) where in the sequence measurement and testing operations are performed?				{ }	1 1
c) a record of the measurement results? and			1	{ }	
<ul> <li>d) type of measurement instruments required and any specific instructions associated with their use?</li> </ul>			لححصحيد		
33 Do lest records show actual test results data when required by the specification or acceptance test plan?		5	, l ) <u>1</u>		<del></del>
34 When required to demonstrate product qualification does the organization ensure that records provide evidence that the product meets the defined requirements?  2.4.2. First article inspection		5			:
35 Does the organization's system provide a process for the inspection, verification, and	P! '	1			-
documentation of a representative item from the first production run of a new part, or		_}		}	
following any subsequent change that invalidates the previous first article inspection result?  ONL, JOSCHEL AO A CONTRACTO ALCON	1)!	5			
) Give examples of first article (new product and change).					
MIPS identified  See previous page	,		•		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	``				1
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					1
					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

- 35 -

QUALITY SYSTEM QUESTIONNAIRE

ASSESSMENT QUESTIONS

KEY

N/A

N/E

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8	Measurement, analysis and improvement (continued)					
	3. Control of nonconforming product					
. LN	ote: The term "nonconforming product" includes nonconforming product returned from a custom	er.				_
	36 Does the organization ensure that product which does not conform to requirements is identified and controlled to prevent its unintended use or delivery?	P	3		2 6 9	1
	37 Are the controls and related responsibilities and authorities for dealing with nonconforming product defined in a documented procedure?					
).}-	38 Does the organization's documented procedure define the responsibility for review and authority for the disposition of nonconforming product and the process for approving personnel making these decisions?		S		# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	To Maria
	39 Does the organization deal with nonconforming product in one or more of the following ways by:	Р				Ī
	a) taking action to eliminate the detected nonconformity?	ļ		·} ·		ł
	<ul> <li>authorizing its use, release or acceptance under concession by a relevant authority and, where applicable, by the customer?</li> </ul>		5			
-	c) taking action to preclude its original intended use or application?	<u> </u>				L
	40 Does the organization prevent dispositions of use-as-is or repair, unless specifically authorized by the customer, if	L				
	- the product is produced to customer design? or		1/	¥.		[
1	the nonconformity results in a departure from the contract requirements?		£5	{	J. ;	ĺ
1	(Unless otherwise restricted in the contract, is organization-designed product, which is controlled via a customer specification, dispositioned by the organization as use-as-is			{	1 :	ĺ
	or repair, provided the nonconformity does not result in a departure from customer-		F	{		
<u>. L-</u>	specified requirements ?)		1	<u> </u>		Ĺ
O	ective evidence assessed / Observations / Comments					
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QUALITY SYSTEM QUESTIONNAIRE					
ASSESSMENT QUESTIONS	KEY Reasivements	s	CAR Number Ma or mi	N/A	N/E
Measurement, analysis and improvement (continued) 8.3. Control of nonconforming product (continued)					
41 is product dispositioned for scrap conspicuously and permanently marked, or positively controlled, until physically rendered unusable?	Pi	13	7	- 12 -	}
42 Are records of the nature of nonconformities and any subsequent actions taken, including concessions obtained, maintained (see 4.2.4)?		15		9	}
43 When nonconforming product is corrected is it subject to re-verification to demonstrate conformity to the requirements?		19		1)1 1)1	}
44 When nonconforming product is detected after delivery or use has started, does the organization take action appropriate to the effects, or potential effects, of the nonconformity?	P,	,		#	}
45 In addition to any contract or regulatory authority reporting requirements, does the organization's system provide for timely reporting of delivered nonconforming product that may affect reliability or safety?	P	5		10	
46 Does notification include a clear description of the nonconformity, which includes as necessary, parts affected, customer and/or organization part numbers, quantity, and date(s) delivered?		5		# # #	
Note: The term "nonconforming product" includes nonconforming product returned from a customer.  8.4 Analysis of data			· · · · · ·		_
47 Does the organization determine, collect and analyse appropriate data to demonstrate the suitability and effectiveness of the quality management system and to evaluate where continual improvement of the effectiveness of the quality management system can be made?	Mi		4 1 1 1	# # #1	- - - - - - - - -
48 Does this include data generated as a result of monitoring and measurement and from other relevant sources?		12 12			v
49 Does the analysis of data provide information relating to:  a) customer satisfaction (see 8.2.1)?  b) conformity to product requirements (see 7.2.1)?  c) characteristics and trends of processes and products including opportunities for preventive action? and  d) organizations? (Suppliers)	1),			***************************************	ν
Give examples and check how the organization measures the effectiveness,					_
Objective evidence assessed / Observations / Comments			· · · · · · · · · · · · · · · · · · ·		_
	)				
Screp Matil Controls	20		1 de 1		
DK 1100 - 45.40 10 14	< 13				
	Measurement, analysis and improvement (continued)  8.3.Control of nonconforming product (continued)  41 Is product dispositioned for scrap conspicuously and permanently marked, or positively controlled, until physically rendered unusable?  42 Are records of the nature of nonconformilies and any subsequent actions taken, including concessions obtained, maintained (see 4.2.4)?  43 When nonconforming product is corrected is it subject to re-verification to demonstrate conformity to the requirements?  44 When nonconforming product is detected after delivery or use has started, does the organization take action appropriate to the effects, or potential effects, of the nonconformity?  45 In addition to any contract or regulatory authority reporting requirements, does the organization's system provide for timely reporting of delivered nonconforming product that may affect reliability or safety?  46 Does notification include a clear description of the nonconformity, which includes as necessary, parts affected, customer and/or organization part numbers, quantity, and date(s) delivered?  Note: The term 'nonconforming product' includes nonconforming product returned from a customer.  8.4 Analysis of data  47 Does the organization determine, collect and analyse appropriate data to demonstrate the suitability and effectiveness of the quality management system and to evaluate where continual improvement of the effectiveness of the quality management system can be made?  48 Does the analysis of data provide information relating to:  a) customer setisfaction (see 8.2.1)?  b) conformity to product requirements (see 7.2.1)?  c) characteristics and trends of processes and products including opportunities for preventive action? and  d) organizations? (Suppliers)  1) Give examples and check how the organization measures the effectiveness.  Objective evidence assessed / Observations / Comments  D. C. A.	ASSESSMENT QUESTIONS  Measurement, analysis and improvement (continued) 8.3. Control of nonconforming product (continued) 41 Is product dispositioned for scrap conspicuously and permanently marked, or positively controlled, until physically rendered unusable?  42 Are records of the nature of nonconformities and any subsequent actions taken, including concessions obtained, minimained (see 4.2.47).  43 When nonconforming product is corrected is it subject to re-verification to demonstrate conformity to the requirements?  44 When nonconforming product is detected after delivery or use has started, does the organization lake action appropriate to the effects, or potential effects, of the nonconformity?  45 In addition to any contract or regulatory authority reporting requirements, does the organization's system provide for timely reporting of delivered nonconforming product that may affect reliability or safety?  46 Does notification include a clear description of the nonconformity, which includes as necessary, parts affected, customer and/or organization part numbers, quantity, and date(s) delivered?  Note: The term nonconforming product' includes nonconforming product returned from a customer.  8.4 Analysis of data  47 Does the organization determine, collect and analyse appropriate data to demonstrate the suitability and effectiveness of the quality management system and to evaluate where continual improvement of the effectiveness of the quality management system and to evaluate where continual improvement of the effectiveness of the quality management system and the evaluation where relevant sources?  48 Does the analysis of data provide information relating to: a) customer satisfaction (see 8.2.1)? b) conformity to product requirements (see 7.2.1)? c) characteristics and trends of processes and products including opportunities for preventive action? and d) organizations? (Supplices)  1) Give examples and check how the organization measures the effectiveness.  Objective evidence assessed / Observations / Commen	ASSESSMENT QUESTIONS  Measurement, analysis and improvement (continued) 8.3. Control of nonconforming product (continued) 4.1 is product dispositioned for scrap conspicuously and permanently marked, or positively controlled, until physically rendered unusable?  4.2 Are records of the nature of nonconformiles and any subsequent actions taken, including concessions obtained, miaintained (see 4.2.4)?  4.3 When nonconforming product is corrected is it subject to re-verification to demonstrate conformity to the requirements?  4.4 When nonconforming product is detected after delivery or use has started, does the organization take action appropriate to the effects, or potential effects, of the nonconformity?  4.5 In addition to any contract or regulatory authority reporting requirements, does the organization's system provide for timely reporting of delivered nonconforming product that may affect reliability or safety?  4.6 Does notification include a clear description of the nonconformity, which includes as necessary, parts affected, customer and/or organization part numbers, quantity, and date(c) delivered?  Note: The term nonconforming product includes nonconforming product returned from a customer.  8.4 Analysis of data  4.7 Does the organization determine, collect and analyse appropriate data to demonstrate the suitability and effectiveness of the quality management system can be made?  4.8 Does this include data generated as a result of monitoring and measurement and from other relevant sources?  4.9 Does the analysis of data provide information relating to: a) customer satisfaction (see 8.2.1)? b) conformity to product requirements (see 7.2.1)? c) characteristics and trends of processes and products including opportunities for preventive action? and organizations?  D.C. 7.245  D.R. 7.185  D.R. 7.185  D.R. 7.185  D.R. 7.185  D.R. 7.187  D.R. 7.187	Measurement, analysis and improvement (continued)  8.3. Control of nonconforming product (continued)  4.1 Is product dispositioned for scrap conspicuously and permanently marked, or positively controlled, until physically rendered unusable?  4.2 Are records of the nature of nonconformiles and any subsequent actions taken, including concessions obtained, misintalined (see 4.2.4)?  4.3 When nonconforming product is corrected is it subject to re-verification to demonstrate conformity to the requirements?  4.4 When nonconforming product is detected after delivery or use has started, does the organization take action appropriate to the effects, or potential effects, of the nonconformity?  4.5 In addition to any contract or regulatory authority reporting requirements, does the organization take action appropriate to the effects, or potential effects, of the nonconforming product that may affect reflability or safety?  4.6 Does notification include a clear description of the nonconformity, which includes as necessary, parts affected, customer and/or organization part numbers, quantity, and date(s) delivered?  Note: The term nonconforming product includes nonconforming product returned from a customer.  4.7 Does the organization determine, collect and analyse appropriate data to demonstrate the suitability and effectiveness of the quality management system and to evaluate where continual improvement of the effectiveness of the quality management system and to evaluate where continual improvement of the effectiveness of the quality management system and to evaluate where continual improvement of the effectiveness of the quality management system and to evaluate where continual improvement of the effectiveness of the quality management system and to evaluate where continual improvement of the effectiveness of the quality management system and to evaluate where continual improvement of the effectiveness of the quality management system and to evaluate where continual improvement of the product requirements (see 7.2.1)?  5	ASSESSMENT QUESTIONS    A

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	QUALITY SYSTEM QUESTIONNAIRE					
	ASSESSMENT QUESTIONS	KEY Requirements		CAR iumber a or mi	N/A N/E	
	8 Measurement, analysis and improvement (continued) 8.5. Improvement 8.5.1. Continual improvement			·	:	
	50 Does the organization continually improve the effectiveness of the quality management system through the use of the quality policy, quality objectives, audit results, analysis of data, corrective and preventive actions and management review?  8.5.2. Corrective action	h	5			
	51 Does the organization take action to eliminate the cause of nonconformities in order to prevent recurrence?		5			
	52 Are Corrective actions appropriate to the effects of the nonconformities encountered?		[3]			
	53 Is a documented procedure established to define requirements for :	1)	15			
w C	a) reviewing nonconformities (including customer complaints)?		<b> </b>		} }	
9,00	b) determining the causes of nonconformities?     c) evaluating the need for action to ensure that nonconformities do not recur?		1 1		; ; ;	
ar C	d) determining and implementing action needed?		\$ . I.		<b>;</b>	
,	e) recording of the results of the action taken (see 4.2.4)?	4	\$ I			
	reviewing corrective action taken?		ŁŁ			
	g) flow down of the corrective action requirement to a supplier, when it is determined that	1	3			
	the supplier is responsible for the root cause? and	M'				uma 1
	h) specific actions where timely and/or effective corrective actions are not achieved?	<u> </u>	21	<u> </u>		none di
	8.5.3. Preventive action					
,	54 Does the organization determine action to eliminate the causes of potential nonconformities in	M }	<∤	\$	1 1	
	order to prevent their occurrence?  55 Are preventive actions appropriate to the effects of the potential problems?		<del></del>	<del></del>		
	55 Are preventive actions appropriate to the effects of the potential problems?  56 Is a documented procedure established to define requirements for:	2)	2-		-4	
	a) determining potential nonconformities and their causes?		5‡	<del> </del>		•
,	evaluating the need for action to prevent occurrence of nonconformities?	;	<b>/</b>		1	
.	c) determining and implementing action needed?		\$	ţ	1 1	
	d) recording of the results of the action taken (see 4.2.4)? and	ţ	\$	}	1 1	
Į	e) reviewing preventive action taken?				لسك	
[	Give examples and check how the organization measures the effectiveness.     Give examples and check the effectiveness.					
ſ	Objective evidence assessed / Observations / Comments			-		
	8.541 \ Crans String on feel against of Mint	lue.	1	/		
	success shows nother reported at Fight	٠	>   'Y	03		
ŀ	8.5.1) Success Stories noted/reported at Mynt/ 8.5.2] - RCAR 197, 194 - Closed CAR	(A) (B)			}	
į	8.5.2 - RCAR 197, 196 - Closed CAR	us / ca	ļ.			
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<i>(</i>	5.5.3 - Rich Mynt Plan ECLSS - FD21-00	14 3	27/	46	i	
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	S: Satisfactory - CAR: Corrective action required MA: Major corrective action - mt : M N/A: Not applicable - N/E: Not evaluated - P: Product - M: Manageme	inor corrective	ection			
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